

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: P331634-830

Luminaire Tested: **SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331634-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

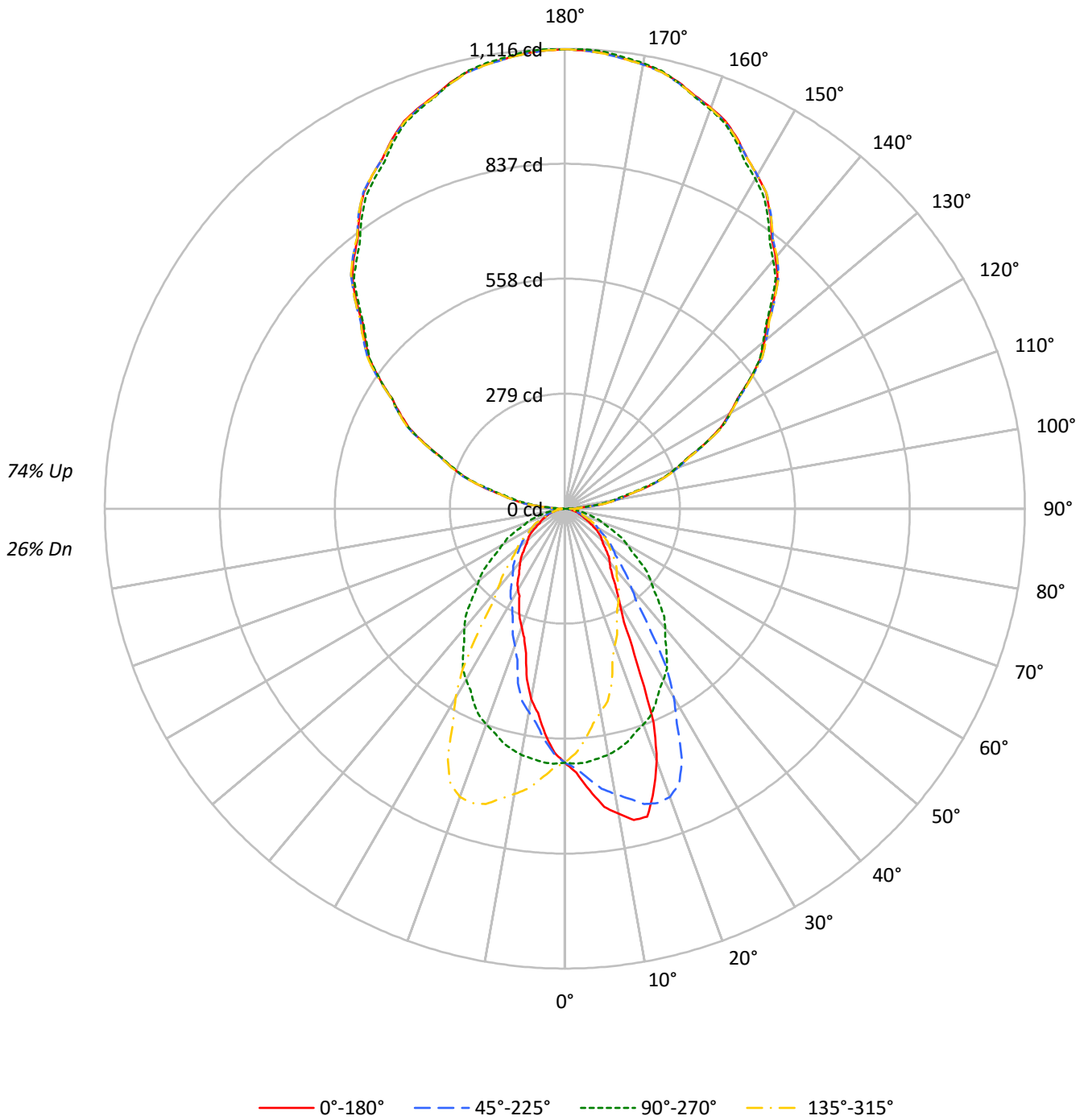
Lumens per Lamp: N/A
Luminaire Lumens: 4186.0 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 37.3
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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	93	89	85	82	82	79	76	74	61	60	58	45	44	43	30	30	29	22
2	85	78	72	67	75	70	65	61	54	51	48	40	38	36	27	26	25	19
3	77	69	62	57	69	62	56	51	48	44	41	36	33	31	24	23	22	17
4	71	61	54	48	63	55	49	44	43	39	35	32	29	27	22	21	19	15
5	65	54	47	41	58	49	43	38	39	34	31	29	26	24	20	18	17	13
6	60	49	41	36	54	44	38	33	35	30	27	26	23	21	18	17	15	12
7	56	44	37	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11
8	52	40	33	28	46	36	30	26	29	24	21	22	19	17	16	14	12	10
9	48	37	30	25	43	33	27	23	27	22	19	20	17	15	15	13	11	9
10	45	33	27	22	40	30	24	20	24	20	17	19	16	14	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9947	9947	9947	9947
5°	11110	10010	8877	10010
10°	12329	9940	7694	9940
15°	12933	9795	6063	9795
20°	11213	9579	5246	9579
25°	7352	9283	4684	9283
30°	4950	8925	4238	8925
35°	4009	8474	3824	8474
40°	3564	7982	3539	7982
45°	3226	7405	3158	7405
50°	2936	6835	2926	6835
55°	2759	6201	2725	6201
60°	2309	5622	2283	5622
65°	1948	5104	2208	5104
70°	1799	4556	2082	4556
75°	1684	3968	1921	3968
80°	1553	3273	1711	3273
85°	1426	2575	1501	2575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.4
10°-20°	162.8	3.9
20°-30°	209.7	5.0
30°-40°	199.3	4.8
40°-50°	170.7	4.1
50°-60°	130.0	3.1
60°-70°	82.2	2.0
70°-80°	41.0	1.0
80°-90°	15.1	0.4
90°-100°	70.6	1.7
100°-110°	219.4	5.2
110°-120°	375.0	9.0
120°-130°	493.1	11.8
130°-140°	553.4	13.2
140°-150°	542.7	13.0
150°-160°	455.2	10.9
160°-170°	301.9	7.2
170°-180°	105.5	2.5
0°-30°	430.9	10.3
0°-40°	630.2	15.1
0°-60°	931.0	22.2
0°-90°	1069.3	25.5
90°-120°	665.0	15.9
90°-150°	2254.1	53.8
90°-180°	3117.0	74.5
0°-180°	4186.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	616	616	616	616	616	
5°	686	618	548	618	686	68
15°	774	586	363	586	774	209
25°	413	521	263	521	413	196
35°	203	430	194	430	203	130
45°	141	324	138	324	141	109
55°	98	220	97	220	98	86
65°	51	134	58	134	51	52
75°	27	64	31	64	27	29
85°	8	14	8	14	8	9
90°	32	1	32	1	32	14
95°	58	49	58	49	58	65
105°	209	202	209	202	209	220
115°	376	376	376	376	376	372
125°	549	547	549	547	549	490
135°	717	708	717	708	717	552
145°	869	860	869	860	869	543
155°	990	983	990	983	990	456
165°	1070	1070	1070	1070	1070	302
175°	1109	1113	1109	1113	1109	105
180°	1115	1115	1115	1115	1115	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	641.2	641.7	642.2	641.0	641.0	640.0	637.7	636.0	631.2	630.6	630.6
5°	685.5	685.1	686.0	683.2	679.4	678.4	674.4	669.0	663.5	657.3	656.0
7.5°	729.6	729.0	727.3	726.8	723.9	717.4	710.9	703.9	694.7	685.6	681.1
10°	752.0	759.0	754.7	747.2	748.7	738.7	733.3	724.1	716.3	702.9	699.9
12.5°	773.8	776.7	775.2	771.0	769.1	762.1	754.9	746.9	732.6	720.6	710.0
15°	773.7	777.8	778.9	777.6	778.6	778.3	774.4	767.8	755.4	742.1	730.5
17.5°	716.6	719.4	726.5	731.2	737.3	749.9	756.2	758.6	756.8	749.1	741.0
20°	652.6	647.9	667.6	677.6	686.2	707.6	726.0	733.1	744.4	744.2	742.1
22.5°	561.8	562.9	581.5	593.5	618.5	640.0	660.9	687.5	709.5	724.0	732.4
25°	412.7	420.9	439.5	455.8	483.6	523.5	559.7	601.6	641.2	672.5	702.3
27.5°	310.0	310.7	325.4	340.4	356.9	389.6	435.2	485.2	541.7	588.3	641.9
30°	265.5	264.2	270.4	279.7	293.8	319.1	353.3	402.5	458.8	529.0	591.5
32.5°	233.9	234.0	238.7	245.5	257.2	274.3	297.7	337.8	391.0	460.1	533.3
35°	203.4	203.2	206.6	211.5	216.4	227.3	243.5	264.4	301.0	365.4	440.4
37.5°	181.4	182.4	184.1	187.2	192.6	198.7	208.3	222.4	248.5	286.6	349.6
40°	169.1	169.6	171.9	174.5	177.7	182.4	190.3	201.7	220.7	251.1	297.2
42.5°	157.9	158.3	159.9	162.3	164.9	169.6	176.2	186.0	201.4	225.1	263.1
45°	141.3	141.3	142.8	143.8	146.7	150.9	156.3	164.5	175.1	192.7	217.9
47.5°	125.8	125.8	126.9	128.7	130.4	133.7	139.0	145.7	153.4	167.0	188.6
50°	116.9	117.2	117.7	119.2	120.4	123.3	127.4	133.2	141.3	151.8	169.8
52.5°	109.7	109.6	110.4	111.0	111.8	113.9	117.0	122.1	129.3	138.5	153.4
55°	98.0	97.2	98.5	99.5	100.2	101.0	102.7	105.9	112.2	119.9	131.0
57.5°	83.5	83.1	84.1	85.0	87.1	89.4	90.9	92.8	96.0	101.6	112.6
60°	71.5	71.5	73.4	74.1	76.4	79.5	82.5	84.2	87.4	91.0	99.2
62.5°	60.9	61.1	61.9	62.6	63.9	67.6	71.8	75.6	78.6	82.1	87.5
65°	51.0	51.4	51.4	51.8	52.7	53.5	55.2	58.2	63.6	68.5	72.6
67.5°	43.3	43.4	43.5	43.9	44.1	45.1	45.8	47.1	48.4	53.0	58.1
70°	38.1	38.7	38.5	38.9	39.2	39.6	40.4	41.1	43.1	44.1	47.1
72.5°	33.3	33.7	33.7	34.0	34.6	34.7	35.3	36.0	37.2	38.1	39.8
75°	27.0	26.8	27.0	27.4	27.6	27.8	27.8	28.7	29.3	30.2	31.3
77.5°	20.8	21.0	21.0	21.0	21.1	21.5	21.4	21.8	22.4	22.9	23.4
80°	16.7	16.9	16.7	16.9	17.2	17.3	17.2	17.3	18.0	18.4	18.4
82.5°	12.9	13.0	13.1	13.1	13.2	13.2	13.6	13.6	14.0	13.9	14.1
85°	7.7	7.5	7.5	7.5	7.7	7.9	7.7	7.7	7.9	7.9	7.9
87.5°	9.1	9.2	9.2	9.1	9.1	9.1	9.2	9.5	9.4	9.7	8.6
90°	32.0	31.8	31.6	31.4	31.1	31.3	31.7	32.0	32.5	32.9	28.3
92.5°	30.4	30.4	30.3	30.3	30.3	30.3	30.2	30.1	30.0	29.9	28.8
95°	58.3	58.7	59.2	59.6	59.9	60.2	60.2	60.2	60.2	60.2	59.8
97.5°	101.0	101.0	101.1	101.1	101.2	101.2	101.2	101.2	101.2	101.2	100.4
100°	128.8	129.0	129.3	129.5	129.7	129.8	129.8	129.8	129.8	129.8	129.2
102.5°	160.5	160.7	160.9	161.1	161.3	161.4	161.2	161.0	160.8	160.7	159.9
105°	208.8	208.8	208.8	208.8	208.8	208.6	208.2	207.7	207.4	206.9	206.5
107.5°	254.3	255.3	256.3	257.2	258.2	258.5	258.4	258.3	258.1	257.9	257.9
110°	289.7	290.3	291.0	291.6	292.2	292.6	292.6	292.6	292.6	292.6	292.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	323.6	324.0	324.5	325.0	325.4	325.9	326.4	326.9	327.4	327.9	328.1
115°	376.3	376.8	377.5	378.1	378.7	379.2	379.4	379.6	379.8	380.0	380.4
117.5°	426.5	427.1	427.7	428.4	429.0	429.5	430.1	430.6	431.0	431.6	432.7
120°	461.8	462.5	463.1	463.7	464.4	464.7	464.7	464.7	464.7	464.7	466.4
122.5°	496.4	496.9	497.4	497.9	498.3	498.8	499.3	499.7	500.3	500.8	502.0
125°	549.3	549.5	549.7	550.0	550.2	550.5	551.2	551.9	552.4	553.1	553.7
127.5°	597.5	598.1	598.8	599.5	600.1	600.9	601.6	602.4	603.1	603.9	604.6
130°	632.1	632.9	633.8	634.6	635.5	636.0	636.5	636.9	637.3	637.7	638.2
132.5°	665.2	665.9	666.6	667.2	667.9	668.6	669.6	670.5	671.5	672.3	672.2
135°	716.7	717.4	718.0	718.6	719.3	719.6	719.9	720.1	720.3	720.5	720.1
137.5°	763.4	764.2	765.1	765.9	766.8	767.2	767.4	767.6	767.8	767.9	767.4
140°	795.8	796.6	797.4	798.2	799.1	799.6	799.6	799.6	799.6	799.6	798.5
142.5°	825.1	826.0	826.8	827.6	828.5	828.8	828.6	828.5	828.3	828.1	827.4
145°	869.1	870.0	870.8	871.7	872.5	872.8	872.6	872.3	872.1	871.9	870.7
147.5°	908.4	909.3	910.0	910.9	911.6	911.8	911.3	910.9	910.4	909.9	909.1
150°	934.1	934.6	935.3	935.9	936.5	936.5	935.9	935.3	934.6	934.1	933.2
152.5°	958.1	958.9	959.7	960.5	961.3	961.3	960.5	959.7	958.9	958.1	957.1
155°	990.4	991.1	991.7	992.3	993.0	992.8	991.7	990.7	989.7	988.5	988.0
157.5°	1018.3	1019.3	1020.3	1021.3	1022.3	1022.1	1020.7	1019.3	1017.9	1016.4	1016.1
160°	1035.6	1036.4	1037.3	1038.1	1039.0	1038.8	1037.5	1036.2	1035.0	1033.7	1033.5
162.5°	1050.7	1051.7	1052.6	1053.7	1054.7	1054.4	1053.0	1051.6	1050.2	1048.8	1048.6
165°	1070.4	1071.5	1072.5	1073.6	1074.6	1074.4	1072.9	1071.5	1070.0	1068.6	1068.6
167.5°	1086.6	1087.7	1088.7	1089.9	1090.9	1090.7	1089.3	1087.8	1086.4	1084.9	1085.0
170°	1094.9	1096.1	1097.4	1098.6	1099.9	1099.8	1098.3	1096.8	1095.4	1093.9	1094.1
172.5°	1101.6	1102.9	1104.2	1105.4	1106.6	1106.5	1105.1	1103.6	1102.2	1100.7	1100.9
175°	1109.0	1110.2	1111.4	1112.8	1114.0	1113.9	1112.4	1111.0	1109.5	1108.1	1108.4
177.5°	1112.4	1113.3	1114.4	1115.4	1116.3	1116.3	1115.4	1114.4	1113.3	1112.4	1112.7
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	630.9	629.5	628.3	625.3	623.7	620.3	619.8	619.6	615.2	610.9	609.6
5°	652.6	649.1	644.0	638.0	631.8	625.4	621.1	617.6	609.1	601.0	596.3
7.5°	674.4	667.0	658.2	646.9	637.3	626.8	618.9	611.8	599.6	588.0	580.1
10°	690.7	678.7	666.9	651.3	639.0	627.1	616.0	606.3	592.7	577.2	566.3
12.5°	700.8	687.6	671.4	656.1	640.3	625.0	610.1	597.8	581.6	565.7	552.8
15°	714.4	700.3	680.6	658.7	638.5	618.5	601.4	586.0	565.1	545.9	530.1
17.5°	725.7	706.2	685.0	659.8	636.2	611.0	588.9	569.2	545.8	522.8	504.2
20°	729.2	709.9	685.5	660.3	632.4	602.7	578.9	557.5	532.4	507.4	486.0
22.5°	727.0	712.0	684.9	654.6	626.1	595.0	568.2	543.3	515.5	489.9	465.1
25°	711.9	706.7	681.1	648.1	615.6	579.4	548.3	521.1	489.5	462.0	435.1
27.5°	676.7	687.8	671.8	636.7	600.5	561.8	526.8	495.9	463.0	432.2	405.3
30°	642.7	668.2	661.4	628.8	588.3	550.3	511.0	478.7	443.7	411.9	385.4
32.5°	596.3	638.4	645.1	617.8	576.0	534.1	493.0	460.9	424.2	390.9	365.0
35°	522.4	585.3	614.3	596.9	555.0	509.7	467.4	429.9	393.0	360.1	334.4
37.5°	434.2	520.0	568.2	569.4	530.8	483.9	437.7	400.5	362.8	330.5	302.7
40°	377.0	470.0	532.7	546.6	514.1	463.4	416.6	378.7	342.0	310.2	278.3
42.5°	325.6	418.2	495.3	519.5	493.7	443.3	396.4	356.8	321.0	291.1	258.4
45°	263.3	344.3	429.2	472.5	458.2	411.5	362.0	324.3	290.8	264.9	233.6
47.5°	222.2	279.2	361.5	419.9	419.7	377.1	328.4	292.4	261.2	236.9	211.6
50°	198.7	248.4	317.9	384.3	389.8	354.1	307.8	272.1	243.0	217.5	197.2
52.5°	177.6	218.6	281.1	344.8	360.6	329.6	284.7	251.8	223.5	200.0	182.7
55°	150.1	181.8	229.3	288.8	312.8	291.0	251.1	220.3	197.4	177.7	162.7
57.5°	127.0	150.7	188.9	236.8	264.7	251.0	218.1	193.0	173.4	155.6	143.8
60°	112.4	131.9	164.2	204.2	235.1	225.5	197.4	174.1	157.4	141.9	130.8
62.5°	98.7	115.5	143.2	175.7	203.9	199.9	177.0	157.4	142.8	128.8	119.3
65°	79.5	91.6	113.3	138.7	161.5	163.3	146.8	133.6	120.6	109.4	101.0
67.5°	63.2	71.3	86.4	107.9	124.9	131.0	120.9	110.7	100.4	91.8	84.5
70°	53.3	59.8	70.9	88.2	103.9	110.3	104.4	96.5	87.6	80.5	74.3
72.5°	43.2	49.5	57.7	70.4	83.8	90.8	88.7	83.0	75.8	69.8	64.0
75°	32.5	34.5	40.1	48.6	59.1	65.1	66.5	63.6	57.8	53.3	49.9
77.5°	24.0	25.3	27.9	32.3	39.2	44.6	46.8	46.4	42.4	39.9	36.6
80°	19.2	19.9	21.2	23.1	28.3	33.6	35.2	35.2	32.3	31.3	28.1
82.5°	14.6	15.1	15.9	17.0	19.3	24.0	25.7	26.0	24.3	22.9	20.4
85°	8.4	8.1	8.6	9.2	9.6	10.9	13.5	13.9	13.5	11.8	11.1
87.5°	7.6	6.9	6.0	5.1	4.8	4.4	4.8	5.2	5.0	5.0	5.1
90°	23.8	19.1	14.5	10.9	8.5	5.9	3.5	0.9	3.5	5.9	8.5
92.5°	27.7	26.7	25.5	24.1	22.2	20.5	18.6	16.8	18.6	20.5	22.2
95°	59.4	58.9	58.5	57.3	55.1	53.1	51.0	48.9	51.0	53.1	55.1
97.5°	99.6	98.9	98.0	96.7	94.9	93.0	91.2	89.4	91.2	93.0	94.9
100°	128.6	127.9	127.3	126.1	124.5	122.8	121.1	119.4	121.1	122.8	124.5
102.5°	159.1	158.3	157.5	156.4	155.0	153.7	152.4	151.1	152.4	153.7	155.0
105°	206.1	205.7	205.3	204.7	204.2	203.5	202.8	202.3	202.8	203.5	204.2
107.5°	257.9	257.9	257.9	257.5	256.6	255.6	254.7	253.7	254.7	255.6	256.6
110°	292.6	292.6	292.6	291.9	290.7	289.4	288.1	286.9	288.1	289.4	290.7



TEST NUMBER: P331634-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	328.2	328.4	328.6	328.0	326.8	325.6	324.2	323.0	324.2	325.6	326.8
115°	380.9	381.3	381.6	381.3	380.0	378.7	377.5	376.3	377.5	378.7	380.0
117.5°	433.9	435.1	436.2	436.0	434.3	432.6	430.9	429.3	430.9	432.6	434.3
120°	468.0	469.7	471.4	471.4	469.7	468.0	466.4	464.7	466.4	468.0	469.7
122.5°	503.1	504.3	505.5	505.0	503.0	501.1	499.0	497.0	499.0	501.1	503.0
125°	554.3	555.0	555.6	555.0	553.1	551.2	549.3	547.4	549.3	551.2	553.1
127.5°	605.4	606.1	606.9	606.1	603.7	601.3	598.9	596.5	598.9	601.3	603.7
130°	638.6	638.9	639.4	638.3	635.6	632.8	630.1	627.4	630.1	632.8	635.6
132.5°	672.2	672.1	672.0	670.9	668.6	666.5	664.2	662.0	664.2	666.5	668.6
135°	719.6	719.3	718.9	717.5	715.2	712.8	710.6	708.3	710.6	712.8	715.2
137.5°	766.9	766.3	765.7	764.5	762.6	760.7	758.8	757.1	758.8	760.7	762.6
140°	797.4	796.4	795.3	793.9	792.0	790.1	788.2	786.4	788.2	790.1	792.0
142.5°	826.7	826.0	825.3	824.0	822.1	820.2	818.3	816.4	818.3	820.2	822.1
145°	869.4	868.2	867.0	865.5	864.1	862.6	861.2	859.7	861.2	862.6	864.1
147.5°	908.2	907.5	906.6	905.3	903.5	901.8	900.0	898.2	900.0	901.8	903.5
150°	932.4	931.5	930.7	929.6	928.4	927.1	925.9	924.6	925.9	927.1	928.4
152.5°	956.1	955.1	954.1	953.0	951.7	950.5	949.2	947.9	949.2	950.5	951.7
155°	987.3	986.7	986.1	985.4	984.9	984.2	983.5	983.0	983.5	984.2	984.9
157.5°	1015.7	1015.3	1014.9	1014.6	1014.1	1013.7	1013.2	1012.9	1013.2	1013.7	1014.1
160°	1033.3	1033.1	1032.9	1032.6	1032.2	1031.7	1031.3	1031.0	1031.3	1031.7	1032.2
162.5°	1048.4	1048.2	1047.9	1047.8	1047.7	1047.6	1047.5	1047.4	1047.5	1047.6	1047.7
165°	1068.6	1068.6	1068.6	1068.7	1068.8	1069.0	1069.3	1069.5	1069.3	1069.0	1068.8
167.5°	1085.0	1085.1	1085.1	1085.4	1086.0	1086.7	1087.3	1087.9	1087.3	1086.7	1086.0
170°	1094.4	1094.6	1094.8	1095.1	1095.8	1096.5	1097.0	1097.7	1097.0	1096.5	1095.8
172.5°	1101.1	1101.4	1101.5	1101.9	1102.6	1103.2	1103.8	1104.5	1103.8	1103.2	1102.6
175°	1108.9	1109.3	1109.7	1110.2	1110.9	1111.4	1112.1	1112.8	1112.1	1111.4	1110.9
177.5°	1113.0	1113.3	1113.7	1114.1	1114.7	1115.1	1115.6	1116.2	1115.6	1115.1	1114.7
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331634-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	607.5	606.2	604.0	600.6	598.5	594.9	592.6	593.9	594.3	593.9	593.6
5°	591.2	586.6	580.4	574.4	568.8	562.9	559.4	558.0	555.0	553.3	552.3
7.5°	571.4	563.6	554.9	544.4	535.6	526.2	521.5	519.2	513.0	509.7	506.8
10°	556.7	544.4	535.6	522.0	513.6	501.4	493.0	493.3	484.9	480.2	476.8
12.5°	540.4	527.0	512.4	500.0	488.4	478.6	468.5	464.5	455.6	451.1	441.9
15°	513.4	497.8	482.4	465.7	453.9	438.7	424.1	406.3	392.0	379.6	376.2
17.5°	484.0	464.6	449.1	429.5	409.3	383.8	366.9	356.6	348.0	341.4	336.5
20°	463.7	444.0	427.5	398.0	370.8	353.5	341.1	333.1	324.1	317.1	313.2
22.5°	442.5	422.0	399.4	366.5	345.3	331.4	320.4	311.2	305.1	299.6	296.1
25°	412.4	389.8	352.8	330.2	313.0	298.4	290.8	285.2	278.8	271.3	267.9
27.5°	380.5	344.8	318.1	301.2	284.9	275.5	268.5	260.2	254.5	251.1	247.5
30°	356.7	320.9	300.2	281.7	270.2	259.7	251.6	246.9	241.3	235.5	233.2
32.5°	330.2	301.6	281.6	266.4	254.6	245.6	239.2	231.6	227.6	224.0	219.1
35°	297.2	275.5	257.3	245.0	233.8	226.5	219.0	214.5	207.3	204.2	202.4
37.5°	269.3	250.5	237.0	223.9	215.0	207.0	202.4	195.2	192.1	187.8	183.8
40°	253.4	235.1	222.1	211.3	201.4	195.5	189.7	183.9	179.2	177.3	172.4
42.5°	237.4	222.4	209.3	197.7	191.1	184.6	177.4	173.1	168.2	165.1	162.1
45°	215.2	201.9	190.8	181.2	173.8	167.2	162.5	155.4	152.7	146.5	143.8
47.5°	195.7	183.3	172.7	163.5	156.5	152.1	145.2	139.7	135.3	131.4	128.1
50°	181.8	171.4	161.2	153.1	146.7	140.4	133.4	130.6	123.8	121.8	119.9
52.5°	169.1	159.3	150.0	141.9	135.5	129.5	123.3	119.6	115.0	113.1	111.7
55°	151.4	141.9	133.0	125.9	119.5	113.3	109.4	104.9	102.7	101.2	99.5
57.5°	133.6	125.1	118.2	111.0	104.5	99.6	95.2	92.5	90.3	88.3	86.2
60°	122.2	114.1	107.9	101.2	94.6	90.6	87.2	83.9	81.3	78.3	77.5
62.5°	110.3	103.1	97.5	91.0	85.2	81.5	78.2	75.2	72.1	67.8	66.5
65°	93.8	88.2	82.2	76.8	71.7	68.1	63.3	59.9	58.6	58.2	58.1
67.5°	78.9	73.6	68.4	63.0	58.3	55.0	52.5	52.0	51.1	50.9	50.2
70°	68.9	64.0	58.9	53.7	49.2	48.6	47.8	46.8	45.8	45.4	45.0
72.5°	60.0	55.0	49.8	45.7	43.7	43.0	42.1	41.2	40.5	40.1	39.9
75°	46.0	41.3	37.9	36.4	35.3	34.7	33.4	32.8	32.3	31.7	31.5
77.5°	33.2	30.4	28.9	28.0	26.9	26.2	25.4	24.8	24.3	24.2	23.8
80°	25.3	23.9	22.9	21.6	21.2	20.4	20.2	19.5	19.7	19.0	19.0
82.5°	19.6	18.0	17.1	16.5	16.0	15.4	15.2	14.9	14.9	14.4	14.4
85°	10.1	9.6	9.2	8.8	8.8	8.1	8.4	8.1	8.1	7.7	7.5
87.5°	5.5	6.0	6.6	7.4	8.4	9.1	9.0	8.9	8.8	8.7	8.5
90°	10.9	14.5	19.1	23.8	28.3	32.9	32.5	32.0	31.7	31.3	31.1
92.5°	24.1	25.5	26.7	27.7	28.8	29.9	30.0	30.1	30.2	30.3	30.3
95°	57.3	58.5	58.9	59.4	59.8	60.2	60.2	60.2	60.2	60.2	59.9
97.5°	96.7	98.0	98.9	99.6	100.4	101.2	101.2	101.2	101.2	101.2	101.2
100°	126.1	127.3	127.9	128.6	129.2	129.8	129.8	129.8	129.8	129.8	129.7
102.5°	156.4	157.5	158.3	159.1	159.9	160.7	160.8	161.0	161.2	161.4	161.3
105°	204.7	205.3	205.7	206.1	206.5	206.9	207.4	207.7	208.2	208.6	208.8
107.5°	257.5	257.9	257.9	257.9	257.9	257.9	258.1	258.3	258.4	258.5	258.2
110°	291.9	292.6	292.6	292.6	292.6	292.6	292.6	292.6	292.6	292.6	292.2



TEST NUMBER: P331634-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	328.0	328.6	328.4	328.2	328.1	327.9	327.4	326.9	326.4	325.9	325.4
115°	381.3	381.6	381.3	380.9	380.4	380.0	379.8	379.6	379.4	379.2	378.7
117.5°	436.0	436.2	435.1	433.9	432.7	431.6	431.0	430.6	430.1	429.5	429.0
120°	471.4	471.4	469.7	468.0	466.4	464.7	464.7	464.7	464.7	464.7	464.4
122.5°	505.0	505.5	504.3	503.1	502.0	500.8	500.3	499.7	499.3	498.8	498.3
125°	555.0	555.6	555.0	554.3	553.7	553.1	552.4	551.9	551.2	550.5	550.2
127.5°	606.1	606.9	606.1	605.4	604.6	603.9	603.1	602.4	601.6	600.9	600.1
130°	638.3	639.4	638.9	638.6	638.2	637.7	637.3	636.9	636.5	636.0	635.5
132.5°	670.9	672.0	672.1	672.2	672.2	672.3	671.5	670.5	669.6	668.6	667.9
135°	717.5	718.9	719.3	719.6	720.1	720.5	720.3	720.1	719.9	719.6	719.3
137.5°	764.5	765.7	766.3	766.9	767.4	767.9	767.8	767.6	767.4	767.2	766.8
140°	793.9	795.3	796.4	797.4	798.5	799.6	799.6	799.6	799.6	799.6	799.1
142.5°	824.0	825.3	826.0	826.7	827.4	828.1	828.3	828.5	828.6	828.8	828.5
145°	865.5	867.0	868.2	869.4	870.7	871.9	872.1	872.3	872.6	872.8	872.5
147.5°	905.3	906.6	907.5	908.2	909.1	909.9	910.4	910.9	911.3	911.8	911.6
150°	929.6	930.7	931.5	932.4	933.2	934.1	934.6	935.3	935.9	936.5	936.5
152.5°	953.0	954.1	955.1	956.1	957.1	958.1	958.9	959.7	960.5	961.3	961.3
155°	985.4	986.1	986.7	987.3	988.0	988.5	989.7	990.7	991.7	992.8	993.0
157.5°	1014.6	1014.9	1015.3	1015.7	1016.1	1016.4	1017.9	1019.3	1020.7	1022.1	1022.3
160°	1032.6	1032.9	1033.1	1033.3	1033.5	1033.7	1035.0	1036.2	1037.5	1038.8	1039.0
162.5°	1047.8	1047.9	1048.2	1048.4	1048.6	1048.8	1050.2	1051.6	1053.0	1054.4	1054.7
165°	1068.7	1068.6	1068.6	1068.6	1068.6	1068.6	1070.0	1071.5	1072.9	1074.4	1074.6
167.5°	1085.4	1085.1	1085.1	1085.0	1085.0	1084.9	1086.4	1087.8	1089.3	1090.7	1090.9
170°	1095.1	1094.8	1094.6	1094.4	1094.1	1093.9	1095.4	1096.8	1098.3	1099.8	1099.9
172.5°	1101.9	1101.5	1101.4	1101.1	1100.9	1100.7	1102.2	1103.6	1105.1	1106.5	1106.6
175°	1110.2	1109.7	1109.3	1108.9	1108.4	1108.1	1109.5	1111.0	1112.4	1113.9	1114.0
177.5°	1114.1	1113.7	1113.3	1113.0	1112.7	1112.4	1113.3	1114.4	1115.4	1116.3	1116.3
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331634-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	591.7	592.0	591.5	591.8	591.5	592.0	591.7	593.6	593.9	594.3	593.9
5°	551.3	548.7	548.3	547.7	548.3	548.7	551.3	552.3	553.3	555.0	558.0
7.5°	503.1	502.8	501.6	500.1	501.6	502.8	503.1	506.8	509.7	513.0	519.2
10°	472.1	471.0	470.8	469.3	470.8	471.0	472.1	476.8	480.2	484.9	493.3
12.5°	435.7	428.9	428.2	424.4	428.2	428.9	435.7	441.9	451.1	455.6	464.5
15°	371.1	369.8	365.4	362.7	365.4	369.8	371.1	376.2	379.6	392.0	406.3
17.5°	334.0	329.8	328.5	327.9	328.5	329.8	334.0	336.5	341.4	348.0	356.6
20°	310.2	306.4	305.8	305.3	305.8	306.4	310.2	313.2	317.1	324.1	333.1
22.5°	293.8	289.7	288.1	286.8	288.1	289.7	293.8	296.1	299.6	305.1	311.2
25°	265.7	264.2	263.3	262.9	263.3	264.2	265.7	267.9	271.3	278.8	285.2
27.5°	243.7	240.4	239.8	238.7	239.8	240.4	243.7	247.5	251.1	254.5	260.2
30°	231.2	230.2	228.7	227.3	228.7	230.2	231.2	233.2	235.5	241.3	246.9
32.5°	216.5	215.6	214.2	213.7	214.2	215.6	216.5	219.1	224.0	227.6	231.6
35°	200.2	197.2	195.9	194.0	195.9	197.2	200.2	202.4	204.2	207.3	214.5
37.5°	182.9	181.3	179.6	180.2	179.6	181.3	182.9	183.8	187.8	192.1	195.2
40°	169.6	168.5	168.1	167.9	168.1	168.5	169.6	172.4	177.3	179.2	183.9
42.5°	158.9	156.0	154.9	154.9	154.9	156.0	158.9	162.1	165.1	168.2	173.1
45°	142.8	140.1	138.1	138.3	138.1	140.1	142.8	143.8	146.5	152.7	155.4
47.5°	126.3	126.2	125.0	125.4	125.0	126.2	126.3	128.1	131.4	135.3	139.7
50°	118.4	117.2	116.2	116.5	116.2	117.2	118.4	119.9	121.8	123.8	130.6
52.5°	110.8	109.7	109.1	110.0	109.1	109.7	110.8	111.7	113.1	115.0	119.6
55°	98.5	97.2	97.0	96.8	97.0	97.2	98.5	99.5	101.2	102.7	104.9
57.5°	84.6	83.8	82.5	82.0	82.5	83.8	84.6	86.2	88.3	90.3	92.5
60°	74.7	73.0	70.9	70.7	70.9	73.0	74.7	77.5	78.3	81.3	83.9
62.5°	65.6	65.3	64.8	64.8	64.8	65.3	65.6	66.5	67.8	72.1	75.2
65°	57.6	57.4	57.6	57.8	57.6	57.4	57.6	58.1	58.2	58.6	59.9
67.5°	50.1	49.8	49.4	49.6	49.4	49.8	50.1	50.2	50.9	51.1	52.0
70°	44.5	44.3	44.1	44.1	44.1	44.3	44.5	45.0	45.4	45.8	46.8
72.5°	39.0	39.0	38.8	38.6	38.8	39.0	39.0	39.9	40.1	40.5	41.2
75°	31.3	30.8	30.8	30.8	30.8	30.8	31.3	31.5	31.7	32.3	32.8
77.5°	23.8	23.6	23.4	23.2	23.4	23.6	23.8	23.8	24.2	24.3	24.8
80°	18.9	18.7	18.4	18.4	18.4	18.7	18.9	19.0	19.0	19.7	19.5
82.5°	14.4	14.1	14.1	13.9	14.1	14.1	14.4	14.4	14.4	14.9	14.9
85°	7.7	7.9	7.7	8.1	7.7	7.9	7.7	7.5	7.7	8.1	8.1
87.5°	8.5	8.4	8.6	8.5	8.6	8.4	8.5	8.5	8.7	8.8	8.9
90°	31.4	31.6	31.8	32.0	31.8	31.6	31.4	31.1	31.3	31.7	32.0
92.5°	30.3	30.3	30.4	30.4	30.4	30.3	30.3	30.3	30.3	30.2	30.1
95°	59.6	59.2	58.7	58.3	58.7	59.2	59.6	59.9	60.2	60.2	60.2
97.5°	101.1	101.1	101.0	101.0	101.0	101.1	101.1	101.2	101.2	101.2	101.2
100°	129.5	129.3	129.0	128.8	129.0	129.3	129.5	129.7	129.8	129.8	129.8
102.5°	161.1	160.9	160.7	160.5	160.7	160.9	161.1	161.3	161.4	161.2	161.0
105°	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.8	208.6	208.2	207.7
107.5°	257.2	256.3	255.3	254.3	255.3	256.3	257.2	258.2	258.5	258.4	258.3
110°	291.6	291.0	290.3	289.7	290.3	291.0	291.6	292.2	292.6	292.6	292.6



TEST NUMBER: P331634-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	325.0	324.5	324.0	323.6	324.0	324.5	325.0	325.4	325.9	326.4	326.9
115°	378.1	377.5	376.8	376.3	376.8	377.5	378.1	378.7	379.2	379.4	379.6
117.5°	428.4	427.7	427.1	426.5	427.1	427.7	428.4	429.0	429.5	430.1	430.6
120°	463.7	463.1	462.5	461.8	462.5	463.1	463.7	464.4	464.7	464.7	464.7
122.5°	497.9	497.4	496.9	496.4	496.9	497.4	497.9	498.3	498.8	499.3	499.7
125°	550.0	549.7	549.5	549.3	549.5	549.7	550.0	550.2	550.5	551.2	551.9
127.5°	599.5	598.8	598.1	597.5	598.1	598.8	599.5	600.1	600.9	601.6	602.4
130°	634.6	633.8	632.9	632.1	632.9	633.8	634.6	635.5	636.0	636.5	636.9
132.5°	667.2	666.6	665.9	665.2	665.9	666.6	667.2	667.9	668.6	669.6	670.5
135°	718.6	718.0	717.4	716.7	717.4	718.0	718.6	719.3	719.6	719.9	720.1
137.5°	765.9	765.1	764.2	763.4	764.2	765.1	765.9	766.8	767.2	767.4	767.6
140°	798.2	797.4	796.6	795.8	796.6	797.4	798.2	799.1	799.6	799.6	799.6
142.5°	827.6	826.8	826.0	825.1	826.0	826.8	827.6	828.5	828.8	828.6	828.5
145°	871.7	870.8	870.0	869.1	870.0	870.8	871.7	872.5	872.8	872.6	872.3
147.5°	910.9	910.0	909.3	908.4	909.3	910.0	910.9	911.6	911.8	911.3	910.9
150°	935.9	935.3	934.6	934.1	934.6	935.3	935.9	936.5	936.5	935.9	935.3
152.5°	960.5	959.7	958.9	958.1	958.9	959.7	960.5	961.3	961.3	960.5	959.7
155°	992.3	991.7	991.1	990.4	991.1	991.7	992.3	993.0	992.8	991.7	990.7
157.5°	1021.3	1020.3	1019.3	1018.3	1019.3	1020.3	1021.3	1022.3	1022.1	1020.7	1019.3
160°	1038.1	1037.3	1036.4	1035.6	1036.4	1037.3	1038.1	1039.0	1038.8	1037.5	1036.2
162.5°	1053.7	1052.6	1051.7	1050.7	1051.7	1052.6	1053.7	1054.7	1054.4	1053.0	1051.6
165°	1073.6	1072.5	1071.5	1070.4	1071.5	1072.5	1073.6	1074.6	1074.4	1072.9	1071.5
167.5°	1089.9	1088.7	1087.7	1086.6	1087.7	1088.7	1089.9	1090.9	1090.7	1089.3	1087.8
170°	1098.6	1097.4	1096.1	1094.9	1096.1	1097.4	1098.6	1099.9	1099.8	1098.3	1096.8
172.5°	1105.4	1104.2	1102.9	1101.6	1102.9	1104.2	1105.4	1106.6	1106.5	1105.1	1103.6
175°	1112.8	1111.4	1110.2	1109.0	1110.2	1111.4	1112.8	1114.0	1113.9	1112.4	1111.0
177.5°	1115.4	1114.4	1113.3	1112.4	1113.3	1114.4	1115.4	1116.3	1116.3	1115.4	1114.4
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331634-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	592.6	594.9	598.5	600.6	604.0	606.2	607.5	609.6	610.9	615.2	619.6
5°	559.4	562.9	568.8	574.4	580.4	586.6	591.2	596.3	601.0	609.1	617.6
7.5°	521.5	526.2	535.6	544.4	554.9	563.6	571.4	580.1	588.0	599.6	611.8
10°	493.0	501.4	513.6	522.0	535.6	544.4	556.7	566.3	577.2	592.7	606.3
12.5°	468.5	478.6	488.4	500.0	512.4	527.0	540.4	552.8	565.7	581.6	597.8
15°	424.1	438.7	453.9	465.7	482.4	497.8	513.4	530.1	545.9	565.1	586.0
17.5°	366.9	383.8	409.3	429.5	449.1	464.6	484.0	504.2	522.8	545.8	569.2
20°	341.1	353.5	370.8	398.0	427.5	444.0	463.7	486.0	507.4	532.4	557.5
22.5°	320.4	331.4	345.3	366.5	399.4	422.0	442.5	465.1	489.9	515.5	543.3
25°	290.8	298.4	313.0	330.2	352.8	389.8	412.4	435.1	462.0	489.5	521.1
27.5°	268.5	275.5	284.9	301.2	318.1	344.8	380.5	405.3	432.2	463.0	495.9
30°	251.6	259.7	270.2	281.7	300.2	320.9	356.7	385.4	411.9	443.7	478.7
32.5°	239.2	245.6	254.6	266.4	281.6	301.6	330.2	365.0	390.9	424.2	460.9
35°	219.0	226.5	233.8	245.0	257.3	275.5	297.2	334.4	360.1	393.0	429.9
37.5°	202.4	207.0	215.0	223.9	237.0	250.5	269.3	302.7	330.5	362.8	400.5
40°	189.7	195.5	201.4	211.3	222.1	235.1	253.4	278.3	310.2	342.0	378.7
42.5°	177.4	184.6	191.1	197.7	209.3	222.4	237.4	258.4	291.1	321.0	356.8
45°	162.5	167.2	173.8	181.2	190.8	201.9	215.2	233.6	264.9	290.8	324.3
47.5°	145.2	152.1	156.5	163.5	172.7	183.3	195.7	211.6	236.9	261.2	292.4
50°	133.4	140.4	146.7	153.1	161.2	171.4	181.8	197.2	217.5	243.0	272.1
52.5°	123.3	129.5	135.5	141.9	150.0	159.3	169.1	182.7	200.0	223.5	251.8
55°	109.4	113.3	119.5	125.9	133.0	141.9	151.4	162.7	177.7	197.4	220.3
57.5°	95.2	99.6	104.5	111.0	118.2	125.1	133.6	143.8	155.6	173.4	193.0
60°	87.2	90.6	94.6	101.2	107.9	114.1	122.2	130.8	141.9	157.4	174.1
62.5°	78.2	81.5	85.2	91.0	97.5	103.1	110.3	119.3	128.8	142.8	157.4
65°	63.3	68.1	71.7	76.8	82.2	88.2	93.8	101.0	109.4	120.6	133.6
67.5°	52.5	55.0	58.3	63.0	68.4	73.6	78.9	84.5	91.8	100.4	110.7
70°	47.8	48.6	49.2	53.7	58.9	64.0	68.9	74.3	80.5	87.6	96.5
72.5°	42.1	43.0	43.7	45.7	49.8	55.0	60.0	64.0	69.8	75.8	83.0
75°	33.4	34.7	35.3	36.4	37.9	41.3	46.0	49.9	53.3	57.8	63.6
77.5°	25.4	26.2	26.9	28.0	28.9	30.4	33.2	36.6	39.9	42.4	46.4
80°	20.2	20.4	21.2	21.6	22.9	23.9	25.3	28.1	31.3	32.3	35.2
82.5°	15.2	15.4	16.0	16.5	17.1	18.0	19.6	20.4	22.9	24.3	26.0
85°	8.4	8.1	8.8	8.8	9.2	9.6	10.1	11.1	11.8	13.5	13.9
87.5°	9.0	9.1	8.4	7.4	6.6	6.0	5.5	5.1	5.0	5.0	5.2
90°	32.5	32.9	28.3	23.8	19.1	14.5	10.9	8.5	5.9	3.5	0.9
92.5°	30.0	29.9	28.8	27.7	26.7	25.5	24.1	22.2	20.5	18.6	16.8
95°	60.2	60.2	59.8	59.4	58.9	58.5	57.3	55.1	53.1	51.0	48.9
97.5°	101.2	101.2	100.4	99.6	98.9	98.0	96.7	94.9	93.0	91.2	89.4
100°	129.8	129.8	129.2	128.6	127.9	127.3	126.1	124.5	122.8	121.1	119.4
102.5°	160.8	160.7	159.9	159.1	158.3	157.5	156.4	155.0	153.7	152.4	151.1
105°	207.4	206.9	206.5	206.1	205.7	205.3	204.7	204.2	203.5	202.8	202.3
107.5°	258.1	257.9	257.9	257.9	257.9	257.9	257.5	256.6	255.6	254.7	253.7
110°	292.6	292.6	292.6	292.6	292.6	292.6	291.9	290.7	289.4	288.1	286.9



TEST NUMBER: P331634-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	327.4	327.9	328.1	328.2	328.4	328.6	328.0	326.8	325.6	324.2	323.0
115°	379.8	380.0	380.4	380.9	381.3	381.6	381.3	380.0	378.7	377.5	376.3
117.5°	431.0	431.6	432.7	433.9	435.1	436.2	436.0	434.3	432.6	430.9	429.3
120°	464.7	464.7	466.4	468.0	469.7	471.4	471.4	469.7	468.0	466.4	464.7
122.5°	500.3	500.8	502.0	503.1	504.3	505.5	505.0	503.0	501.1	499.0	497.0
125°	552.4	553.1	553.7	554.3	555.0	555.6	555.0	553.1	551.2	549.3	547.4
127.5°	603.1	603.9	604.6	605.4	606.1	606.9	606.1	603.7	601.3	598.9	596.5
130°	637.3	637.7	638.2	638.6	638.9	639.4	638.3	635.6	632.8	630.1	627.4
132.5°	671.5	672.3	672.2	672.2	672.1	672.0	670.9	668.6	666.5	664.2	662.0
135°	720.3	720.5	720.1	719.6	719.3	718.9	717.5	715.2	712.8	710.6	708.3
137.5°	767.8	767.9	767.4	766.9	766.3	765.7	764.5	762.6	760.7	758.8	757.1
140°	799.6	799.6	798.5	797.4	796.4	795.3	793.9	792.0	790.1	788.2	786.4
142.5°	828.3	828.1	827.4	826.7	826.0	825.3	824.0	822.1	820.2	818.3	816.4
145°	872.1	871.9	870.7	869.4	868.2	867.0	865.5	864.1	862.6	861.2	859.7
147.5°	910.4	909.9	909.1	908.2	907.5	906.6	905.3	903.5	901.8	900.0	898.2
150°	934.6	934.1	933.2	932.4	931.5	930.7	929.6	928.4	927.1	925.9	924.6
152.5°	958.9	958.1	957.1	956.1	955.1	954.1	953.0	951.7	950.5	949.2	947.9
155°	989.7	988.5	988.0	987.3	986.7	986.1	985.4	984.9	984.2	983.5	983.0
157.5°	1017.9	1016.4	1016.1	1015.7	1015.3	1014.9	1014.6	1014.1	1013.7	1013.2	1012.9
160°	1035.0	1033.7	1033.5	1033.3	1033.1	1032.9	1032.6	1032.2	1031.7	1031.3	1031.0
162.5°	1050.2	1048.8	1048.6	1048.4	1048.2	1047.9	1047.8	1047.7	1047.6	1047.5	1047.4
165°	1070.0	1068.6	1068.6	1068.6	1068.6	1068.6	1068.7	1068.8	1069.0	1069.3	1069.5
167.5°	1086.4	1084.9	1085.0	1085.0	1085.1	1085.1	1085.4	1086.0	1086.7	1087.3	1087.9
170°	1095.4	1093.9	1094.1	1094.4	1094.6	1094.8	1095.1	1095.8	1096.5	1097.0	1097.7
172.5°	1102.2	1100.7	1100.9	1101.1	1101.4	1101.5	1101.9	1102.6	1103.2	1103.8	1104.5
175°	1109.5	1108.1	1108.4	1108.9	1109.3	1109.7	1110.2	1110.9	1111.4	1112.1	1112.8
177.5°	1113.3	1112.4	1112.7	1113.0	1113.3	1113.7	1114.1	1114.7	1115.1	1115.6	1116.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



TEST NUMBER: P331634-830

CATALOG NUMBER: SA2XXRDIP-C290D925U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	619.8	620.3	623.7	625.3	628.3	629.5	630.9	630.6	630.6	631.2	636.0
5°	621.1	625.4	631.8	638.0	644.0	649.1	652.6	656.0	657.3	663.5	669.0
7.5°	618.9	626.8	637.3	646.9	658.2	667.0	674.4	681.1	685.6	694.7	703.9
10°	616.0	627.1	639.0	651.3	666.9	678.7	690.7	699.9	702.9	716.3	724.1
12.5°	610.1	625.0	640.3	656.1	671.4	687.6	700.8	710.0	720.6	732.6	746.9
15°	601.4	618.5	638.5	658.7	680.6	700.3	714.4	730.5	742.1	755.4	767.8
17.5°	588.9	611.0	636.2	659.8	685.0	706.2	725.7	741.0	749.1	756.8	758.6
20°	578.9	602.7	632.4	660.3	685.5	709.9	729.2	742.1	744.2	744.4	733.1
22.5°	568.2	595.0	626.1	654.6	684.9	712.0	727.0	732.4	724.0	709.5	687.5
25°	548.3	579.4	615.6	648.1	681.1	706.7	711.9	702.3	672.5	641.2	601.6
27.5°	526.8	561.8	600.5	636.7	671.8	687.8	676.7	641.9	588.3	541.7	485.2
30°	511.0	550.3	588.3	628.8	661.4	668.2	642.7	591.5	529.0	458.8	402.5
32.5°	493.0	534.1	576.0	617.8	645.1	638.4	596.3	533.3	460.1	391.0	337.8
35°	467.4	509.7	555.0	596.9	614.3	585.3	522.4	440.4	365.4	301.0	264.4
37.5°	437.7	483.9	530.8	569.4	568.2	520.0	434.2	349.6	286.6	248.5	222.4
40°	416.6	463.4	514.1	546.6	532.7	470.0	377.0	297.2	251.1	220.7	201.7
42.5°	396.4	443.3	493.7	519.5	495.3	418.2	325.6	263.1	225.1	201.4	186.0
45°	362.0	411.5	458.2	472.5	429.2	344.3	263.3	217.9	192.7	175.1	164.5
47.5°	328.4	377.1	419.7	419.9	361.5	279.2	222.2	188.6	167.0	153.4	145.7
50°	307.8	354.1	389.8	384.3	317.9	248.4	198.7	169.8	151.8	141.3	133.2
52.5°	284.7	329.6	360.6	344.8	281.1	218.6	177.6	153.4	138.5	129.3	122.1
55°	251.1	291.0	312.8	288.8	229.3	181.8	150.1	131.0	119.9	112.2	105.9
57.5°	218.1	251.0	264.7	236.8	188.9	150.7	127.0	112.6	101.6	96.0	92.8
60°	197.4	225.5	235.1	204.2	164.2	131.9	112.4	99.2	91.0	87.4	84.2
62.5°	177.0	199.9	203.9	175.7	143.2	115.5	98.7	87.5	82.1	78.6	75.6
65°	146.8	163.3	161.5	138.7	113.3	91.6	79.5	72.6	68.5	63.6	58.2
67.5°	120.9	131.0	124.9	107.9	86.4	71.3	63.2	58.1	53.0	48.4	47.1
70°	104.4	110.3	103.9	88.2	70.9	59.8	53.3	47.1	44.1	43.1	41.1
72.5°	88.7	90.8	83.8	70.4	57.7	49.5	43.2	39.8	38.1	37.2	36.0
75°	66.5	65.1	59.1	48.6	40.1	34.5	32.5	31.3	30.2	29.3	28.7
77.5°	46.8	44.6	39.2	32.3	27.9	25.3	24.0	23.4	22.9	22.4	21.8
80°	35.2	33.6	28.3	23.1	21.2	19.9	19.2	18.4	18.4	18.0	17.3
82.5°	25.7	24.0	19.3	17.0	15.9	15.1	14.6	14.1	13.9	14.0	13.6
85°	13.5	10.9	9.6	9.2	8.6	8.1	8.4	7.9	7.9	7.9	7.7
87.5°	4.8	4.4	4.8	5.1	6.0	6.9	7.6	8.6	9.7	9.4	9.5
90°	3.5	5.9	8.5	10.9	14.5	19.1	23.8	28.3	32.9	32.5	32.0
92.5°	18.6	20.5	22.2	24.1	25.5	26.7	27.7	28.8	29.9	30.0	30.1
95°	51.0	53.1	55.1	57.3	58.5	58.9	59.4	59.8	60.2	60.2	60.2
97.5°	91.2	93.0	94.9	96.7	98.0	98.9	99.6	100.4	101.2	101.2	101.2
100°	121.1	122.8	124.5	126.1	127.3	127.9	128.6	129.2	129.8	129.8	129.8
102.5°	152.4	153.7	155.0	156.4	157.5	158.3	159.1	159.9	160.7	160.8	161.0
105°	202.8	203.5	204.2	204.7	205.3	205.7	206.1	206.5	206.9	207.4	207.7
107.5°	254.7	255.6	256.6	257.5	257.9	257.9	257.9	257.9	257.9	258.1	258.3
110°	288.1	289.4	290.7	291.9	292.6	292.6	292.6	292.6	292.6	292.6	292.6



TEST NUMBER: P331634-830
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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	324.2	325.6	326.8	328.0	328.6	328.4	328.2	328.1	327.9	327.4	326.9
115°	377.5	378.7	380.0	381.3	381.6	381.3	380.9	380.4	380.0	379.8	379.6
117.5°	430.9	432.6	434.3	436.0	436.2	435.1	433.9	432.7	431.6	431.0	430.6
120°	466.4	468.0	469.7	471.4	471.4	469.7	468.0	466.4	464.7	464.7	464.7
122.5°	499.0	501.1	503.0	505.0	505.5	504.3	503.1	502.0	500.8	500.3	499.7
125°	549.3	551.2	553.1	555.0	555.6	555.0	554.3	553.7	553.1	552.4	551.9
127.5°	598.9	601.3	603.7	606.1	606.9	606.1	605.4	604.6	603.9	603.1	602.4
130°	630.1	632.8	635.6	638.3	639.4	638.9	638.6	638.2	637.7	637.3	636.9
132.5°	664.2	666.5	668.6	670.9	672.0	672.1	672.2	672.2	672.3	671.5	670.5
135°	710.6	712.8	715.2	717.5	718.9	719.3	719.6	720.1	720.5	720.3	720.1
137.5°	758.8	760.7	762.6	764.5	765.7	766.3	766.9	767.4	767.9	767.8	767.6
140°	788.2	790.1	792.0	793.9	795.3	796.4	797.4	798.5	799.6	799.6	799.6
142.5°	818.3	820.2	822.1	824.0	825.3	826.0	826.7	827.4	828.1	828.3	828.5
145°	861.2	862.6	864.1	865.5	867.0	868.2	869.4	870.7	871.9	872.1	872.3
147.5°	900.0	901.8	903.5	905.3	906.6	907.5	908.2	909.1	909.9	910.4	910.9
150°	925.9	927.1	928.4	929.6	930.7	931.5	932.4	933.2	934.1	934.6	935.3
152.5°	949.2	950.5	951.7	953.0	954.1	955.1	956.1	957.1	958.1	958.9	959.7
155°	983.5	984.2	984.9	985.4	986.1	986.7	987.3	988.0	988.5	989.7	990.7
157.5°	1013.2	1013.7	1014.1	1014.6	1014.9	1015.3	1015.7	1016.1	1016.4	1017.9	1019.3
160°	1031.3	1031.7	1032.2	1032.6	1032.9	1033.1	1033.3	1033.5	1033.7	1035.0	1036.2
162.5°	1047.5	1047.6	1047.7	1047.8	1047.9	1048.2	1048.4	1048.6	1048.8	1050.2	1051.6
165°	1069.3	1069.0	1068.8	1068.7	1068.6	1068.6	1068.6	1068.6	1068.6	1070.0	1071.5
167.5°	1087.3	1086.7	1086.0	1085.4	1085.1	1085.1	1085.0	1085.0	1084.9	1086.4	1087.8
170°	1097.0	1096.5	1095.8	1095.1	1094.8	1094.6	1094.4	1094.1	1093.9	1095.4	1096.8
172.5°	1103.8	1103.2	1102.6	1101.9	1101.5	1101.4	1101.1	1100.9	1100.7	1102.2	1103.6
175°	1112.1	1111.4	1110.9	1110.2	1109.7	1109.3	1108.9	1108.4	1108.1	1109.5	1111.0
177.5°	1115.6	1115.1	1114.7	1114.1	1113.7	1113.3	1113.0	1112.7	1112.4	1113.3	1114.4
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	637.7	640.0	641.0	641.0	642.2	641.7	641.2
5°	674.4	678.4	679.4	683.2	686.0	685.1	685.5
7.5°	710.9	717.4	723.9	726.8	727.3	729.0	729.6
10°	733.3	738.7	748.7	747.2	754.7	759.0	752.0
12.5°	754.9	762.1	769.1	771.0	775.2	776.7	773.8
15°	774.4	778.3	778.6	777.6	778.9	777.8	773.7
17.5°	756.2	749.9	737.3	731.2	726.5	719.4	716.6
20°	726.0	707.6	686.2	677.6	667.6	647.9	652.6
22.5°	660.9	640.0	618.5	593.5	581.5	562.9	561.8
25°	559.7	523.5	483.6	455.8	439.5	420.9	412.7
27.5°	435.2	389.6	356.9	340.4	325.4	310.7	310.0
30°	353.3	319.1	293.8	279.7	270.4	264.2	265.5
32.5°	297.7	274.3	257.2	245.5	238.7	234.0	233.9
35°	243.5	227.3	216.4	211.5	206.6	203.2	203.4
37.5°	208.3	198.7	192.6	187.2	184.1	182.4	181.4
40°	190.3	182.4	177.7	174.5	171.9	169.6	169.1
42.5°	176.2	169.6	164.9	162.3	159.9	158.3	157.9
45°	156.3	150.9	146.7	143.8	142.8	141.3	141.3
47.5°	139.0	133.7	130.4	128.7	126.9	125.8	125.8
50°	127.4	123.3	120.4	119.2	117.7	117.2	116.9
52.5°	117.0	113.9	111.8	111.0	110.4	109.6	109.7
55°	102.7	101.0	100.2	99.5	98.5	97.2	98.0
57.5°	90.9	89.4	87.1	85.0	84.1	83.1	83.5
60°	82.5	79.5	76.4	74.1	73.4	71.5	71.5
62.5°	71.8	67.6	63.9	62.6	61.9	61.1	60.9
65°	55.2	53.5	52.7	51.8	51.4	51.4	51.0
67.5°	45.8	45.1	44.1	43.9	43.5	43.4	43.3
70°	40.4	39.6	39.2	38.9	38.5	38.7	38.1
72.5°	35.3	34.7	34.6	34.0	33.7	33.7	33.3
75°	27.8	27.8	27.6	27.4	27.0	26.8	27.0
77.5°	21.4	21.5	21.1	21.0	21.0	21.0	20.8
80°	17.2	17.3	17.2	16.9	16.7	16.9	16.7
82.5°	13.6	13.2	13.2	13.1	13.1	13.0	12.9
85°	7.7	7.9	7.7	7.5	7.5	7.5	7.7
87.5°	9.2	9.1	9.1	9.1	9.2	9.2	9.1
90°	31.7	31.3	31.1	31.4	31.6	31.8	32.0
92.5°	30.2	30.3	30.3	30.3	30.3	30.4	30.4
95°	60.2	60.2	59.9	59.6	59.2	58.7	58.3
97.5°	101.2	101.2	101.2	101.1	101.1	101.0	101.0
100°	129.8	129.8	129.7	129.5	129.3	129.0	128.8
102.5°	161.2	161.4	161.3	161.1	160.9	160.7	160.5
105°	208.2	208.6	208.8	208.8	208.8	208.8	208.8
107.5°	258.4	258.5	258.2	257.2	256.3	255.3	254.3
110°	292.6	292.6	292.2	291.6	291.0	290.3	289.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	326.4	325.9	325.4	325.0	324.5	324.0	323.6
115°	379.4	379.2	378.7	378.1	377.5	376.8	376.3
117.5°	430.1	429.5	429.0	428.4	427.7	427.1	426.5
120°	464.7	464.7	464.4	463.7	463.1	462.5	461.8
122.5°	499.3	498.8	498.3	497.9	497.4	496.9	496.4
125°	551.2	550.5	550.2	550.0	549.7	549.5	549.3
127.5°	601.6	600.9	600.1	599.5	598.8	598.1	597.5
130°	636.5	636.0	635.5	634.6	633.8	632.9	632.1
132.5°	669.6	668.6	667.9	667.2	666.6	665.9	665.2
135°	719.9	719.6	719.3	718.6	718.0	717.4	716.7
137.5°	767.4	767.2	766.8	765.9	765.1	764.2	763.4
140°	799.6	799.6	799.1	798.2	797.4	796.6	795.8
142.5°	828.6	828.8	828.5	827.6	826.8	826.0	825.1
145°	872.6	872.8	872.5	871.7	870.8	870.0	869.1
147.5°	911.3	911.8	911.6	910.9	910.0	909.3	908.4
150°	935.9	936.5	936.5	935.9	935.3	934.6	934.1
152.5°	960.5	961.3	961.3	960.5	959.7	958.9	958.1
155°	991.7	992.8	993.0	992.3	991.7	991.1	990.4
157.5°	1020.7	1022.1	1022.3	1021.3	1020.3	1019.3	1018.3
160°	1037.5	1038.8	1039.0	1038.1	1037.3	1036.4	1035.6
162.5°	1053.0	1054.4	1054.7	1053.7	1052.6	1051.7	1050.7
165°	1072.9	1074.4	1074.6	1073.6	1072.5	1071.5	1070.4
167.5°	1089.3	1090.7	1090.9	1089.9	1088.7	1087.7	1086.6
170°	1098.3	1099.8	1099.9	1098.6	1097.4	1096.1	1094.9
172.5°	1105.1	1106.5	1106.6	1105.4	1104.2	1102.9	1101.6
175°	1112.4	1113.9	1114.0	1112.8	1111.4	1110.2	1109.0
177.5°	1115.4	1116.3	1116.3	1115.4	1114.4	1113.3	1112.4
180°	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)