

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: P331278-940

Luminaire Tested: **SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331278-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

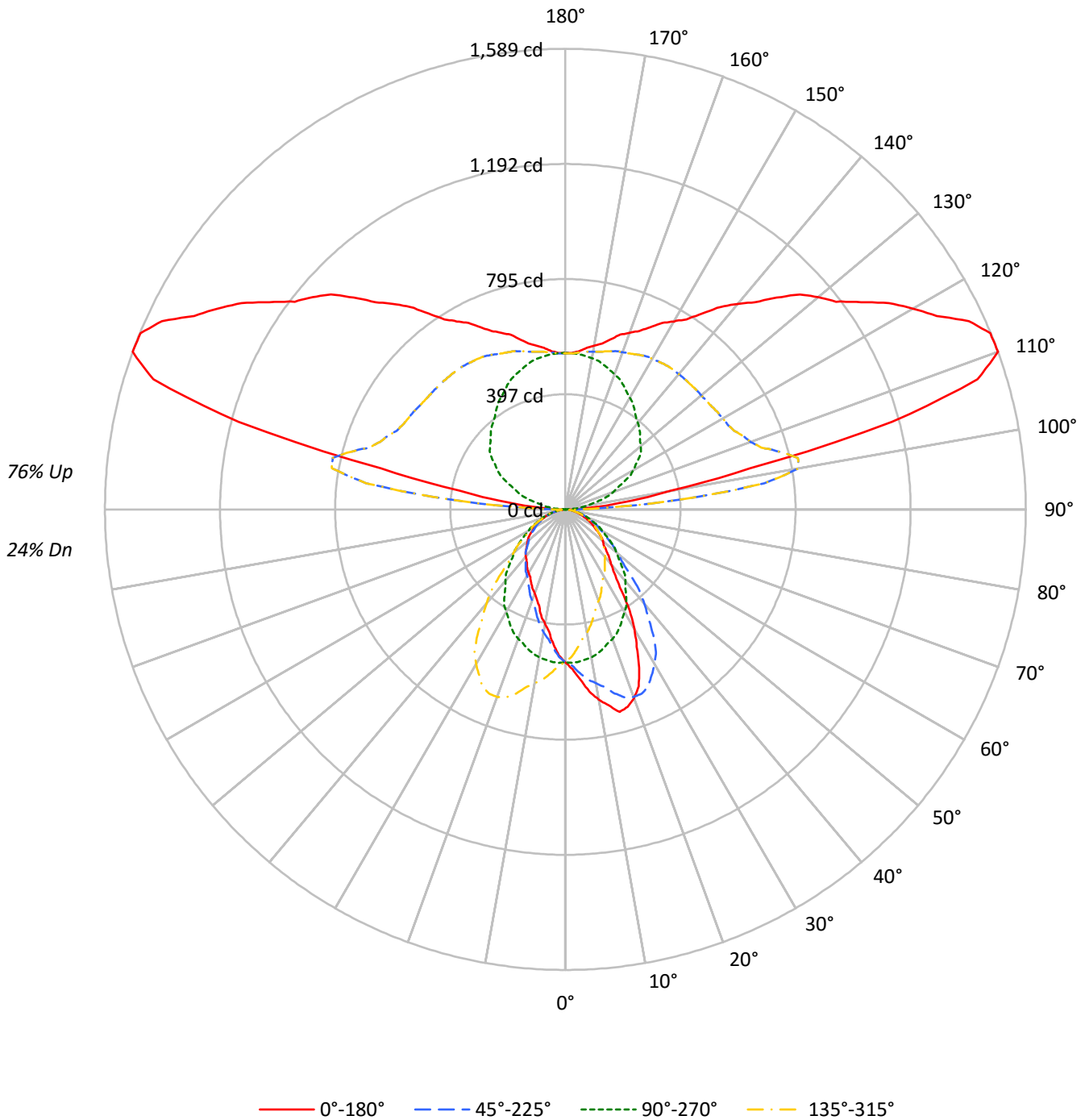
Lumens per Lamp: N/A
Luminaire Lumens: 4916.0 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 42.2
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	88	84	81	82	78	75	73	60	58	57	44	43	42	29	28	27	20
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	25	24	23	17
3	77	68	61	56	68	61	55	50	47	43	40	34	32	30	23	21	20	15
4	70	60	53	47	62	54	47	43	42	37	34	31	28	26	20	19	17	13
5	64	53	46	40	57	48	41	37	37	33	29	28	25	22	18	17	15	12
6	59	48	40	35	53	43	36	32	34	29	26	25	22	19	17	15	14	10
7	55	43	36	30	49	39	32	28	30	26	22	23	20	17	15	14	12	9
8	51	39	32	27	45	35	29	24	28	23	20	21	18	15	14	12	11	8
9	47	36	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10	8
10	44	32	26	21	39	29	23	19	23	19	16	18	15	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8510	8510	8510	8510
5°	9540	8566	7590	8566
10°	10932	8496	6568	8496
15°	12094	8339	5804	8339
20°	11911	8172	5290	8172
25°	10739	7949	4965	7949
30°	8874	7594	4728	7594
35°	6467	7222	4559	7222
40°	5166	6785	4466	6785
45°	4514	6277	4338	6277
50°	4245	5785	4253	5785
55°	3910	5286	4138	5286
60°	3584	4753	3965	4753
65°	3266	4279	3790	4279
70°	2965	3814	3541	3814
75°	2633	3300	3132	3300
80°	2259	2724	2520	2724
85°	2038	2038	1501	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.0
10°-20°	145.9	3.0
20°-30°	211.8	4.3
30°-40°	223.5	4.5
40°-50°	197.9	4.0
50°-60°	157.9	3.2
60°-70°	107.3	2.2
70°-80°	55.0	1.1
80°-90°	18.1	0.4
90°-100°	215.4	4.4
100°-110°	730.9	14.9
110°-120°	776.4	15.8
120°-130°	639.2	13.0
130°-140°	513.3	10.4
140°-150°	387.9	7.9
150°-160°	272.6	5.5
160°-170°	160.5	3.3
170°-180°	52.2	1.1
0°-30°	407.9	8.3
0°-40°	631.4	12.8
0°-60°	987.2	20.1
0°-90°	1167.7	23.8
90°-120°	1722.7	35.0
90°-150°	3263.0	66.4
90°-180°	3748.0	76.2
0°-180°	4916.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	527	527	527	527	527	
5°	589	528	468	528	589	59
15°	724	499	347	499	724	200
25°	603	446	279	446	603	272
35°	328	366	231	366	328	213
45°	198	275	190	275	198	155
55°	139	188	147	188	139	125
65°	86	112	99	112	86	85
75°	42	53	50	53	42	45
85°	11	11	8	11	11	13
90°	34	1	34	1	34	19
95°	118	36	118	36	118	154
105°	1167	126	1167	126	1167	1130
115°	1536	223	1536	223	1536	1504
125°	1246	311	1246	311	1246	1126
135°	1033	365	1033	365	1033	802
145°	825	416	825	416	825	524
155°	693	473	693	473	693	323
165°	608	516	608	516	608	174
175°	548	538	548	538	548	53
180°	539	539	539	539	539	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	551.3	551.5	551.9	549.3	548.9	548.9	546.7	544.7	542.4	539.4	539.8
5°	588.6	590.8	591.7	589.2	585.6	585.2	581.8	576.1	570.8	566.6	563.6
7.5°	633.1	634.0	632.0	628.8	626.2	621.3	614.8	608.6	599.8	591.7	585.8
10°	666.8	668.1	664.6	660.0	656.1	650.4	641.1	631.6	620.1	608.9	600.0
12.5°	692.4	695.4	691.0	690.5	683.9	676.0	664.9	660.1	643.9	628.4	618.8
15°	723.5	723.4	723.8	719.9	715.1	713.8	702.1	689.3	666.5	657.3	641.5
17.5°	714.5	717.6	719.1	719.0	718.9	718.1	714.3	706.3	694.8	680.0	661.8
20°	693.2	697.2	697.9	702.5	705.2	708.6	710.0	707.8	700.7	688.3	672.5
22.5°	660.1	661.3	663.2	670.4	676.1	684.7	689.2	696.8	694.0	688.0	674.8
25°	602.8	600.8	607.9	611.5	624.7	638.5	648.5	659.3	669.1	674.9	671.1
27.5°	534.0	531.0	541.6	551.3	562.0	576.9	592.4	610.6	625.8	644.9	651.4
30°	476.0	477.9	487.9	498.3	514.5	535.6	553.0	573.0	594.8	616.0	630.8
32.5°	413.5	420.4	426.9	442.7	457.0	480.5	506.0	531.1	558.1	582.3	605.2
35°	328.1	336.3	345.2	356.7	376.7	400.0	425.0	458.8	495.7	528.7	555.8
37.5°	276.3	274.9	280.0	288.4	304.6	323.4	352.1	385.5	428.9	467.7	506.0
40°	245.1	244.3	247.9	255.7	268.0	281.8	306.9	336.3	376.6	424.0	469.6
42.5°	223.7	224.2	226.2	231.7	240.1	251.5	270.3	295.2	332.2	376.8	425.8
45°	197.7	199.1	201.3	204.0	208.8	218.2	228.7	246.6	275.7	313.0	361.1
47.5°	179.0	179.1	181.3	183.6	186.5	191.7	200.4	211.5	232.1	262.4	303.9
50°	169.0	167.6	169.2	170.9	174.0	177.6	183.3	193.9	207.6	232.1	266.8
52.5°	156.6	156.7	158.1	158.8	161.5	165.1	170.3	177.6	190.1	209.3	237.7
55°	138.9	140.0	140.8	142.0	144.5	147.0	151.1	156.0	165.7	180.0	201.2
57.5°	122.3	122.7	123.5	125.8	127.3	129.7	133.6	138.0	144.4	155.0	170.9
60°	111.0	111.0	112.6	113.6	115.7	118.1	121.1	125.4	131.1	139.7	152.6
62.5°	100.7	100.5	101.1	102.8	104.3	106.6	109.6	113.2	118.6	126.4	136.8
65°	85.5	85.1	86.3	86.7	88.3	90.5	93.0	96.8	101.1	106.7	116.1
67.5°	70.9	71.4	72.1	72.8	73.7	76.1	77.7	80.3	84.0	88.7	95.0
70°	62.8	62.8	62.8	63.4	64.6	65.8	67.4	69.6	73.1	77.1	82.8
72.5°	53.7	54.4	55.0	54.7	56.2	56.9	58.9	60.1	63.4	66.0	71.0
75°	42.2	42.2	42.2	43.2	43.8	44.3	45.6	46.8	48.4	51.6	54.3
77.5°	31.5	31.4	31.6	31.8	32.5	33.2	33.5	34.6	36.1	37.6	39.9
80°	24.3	24.7	24.9	25.3	25.3	25.7	25.9	27.4	28.4	29.3	30.8
82.5°	18.8	18.9	18.9	19.0	19.2	19.4	20.0	20.4	20.8	21.6	22.6
85°	11.0	10.7	10.7	11.1	11.0	11.0	11.3	11.8	11.8	11.9	12.6
87.5°	11.1	11.1	11.2	11.1	11.1	11.0	10.6	10.9	11.2	11.6	11.5
90°	34.2	34.2	34.2	34.2	34.2	33.2	31.1	33.2	34.2	35.2	34.2
92.5°	57.4	59.0	58.2	61.5	62.3	68.8	77.5	90.3	113.8	134.6	132.8
95°	118.1	117.1	120.2	128.4	141.9	164.7	208.2	271.4	355.3	406.1	359.4
97.5°	232.5	241.1	256.3	281.8	331.3	406.1	518.2	633.3	727.2	693.2	522.1
100°	370.9	389.5	419.5	464.0	550.0	675.4	817.3	945.7	967.5	818.3	563.5
102.5°	652.6	677.9	715.4	791.4	884.8	1017.6	1121.4	1150.5	1057.0	822.5	547.8
105°	1167.4	1182.0	1226.5	1290.7	1355.0	1389.1	1375.6	1258.6	1043.1	767.6	516.9
107.5°	1491.2	1510.5	1519.4	1523.0	1514.8	1464.7	1357.0	1180.7	952.2	708.7	501.6
110°	1589.0	1590.1	1580.7	1561.0	1516.5	1431.6	1299.0	1113.6	895.0	680.6	498.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1587.3	1581.8	1564.1	1531.2	1469.3	1371.9	1230.2	1052.2	855.2	662.4	499.1
115°	1536.2	1526.9	1499.9	1452.3	1378.8	1272.0	1136.4	976.9	805.9	642.2	503.5
117.5°	1444.8	1437.0	1408.5	1358.3	1283.3	1183.2	1060.2	920.1	774.8	632.5	510.9
120°	1386.0	1375.6	1345.6	1296.9	1224.4	1130.2	1020.3	891.9	758.2	626.7	515.9
122.5°	1324.6	1316.0	1289.2	1241.4	1176.3	1091.2	987.2	869.5	744.1	623.4	521.7
125°	1246.2	1237.9	1212.0	1172.6	1112.5	1034.8	943.7	837.0	724.1	617.4	530.4
127.5°	1177.4	1170.7	1148.3	1111.5	1059.1	987.4	901.4	804.9	705.4	613.9	539.3
130°	1138.4	1130.2	1109.5	1074.2	1023.4	955.1	873.3	784.2	693.0	612.2	545.9
132.5°	1097.8	1090.4	1071.3	1036.1	986.1	921.9	846.8	764.3	683.1	611.4	552.5
135°	1032.8	1028.6	1010.0	975.8	931.2	873.3	804.9	736.5	669.1	610.1	560.4
137.5°	968.9	962.8	946.4	916.9	876.4	825.8	771.5	714.3	659.4	609.9	567.5
140°	925.1	918.8	903.3	876.4	843.2	797.6	750.0	700.3	653.6	609.1	570.8
142.5°	881.1	879.9	866.0	841.5	810.0	772.0	730.9	688.7	647.8	609.1	573.3
145°	824.6	821.4	811.1	793.4	768.7	738.6	706.5	672.3	640.2	607.0	576.0
147.5°	777.1	775.3	768.2	754.1	733.6	711.7	686.6	659.7	632.3	603.3	576.8
150°	748.9	747.9	741.7	729.2	713.7	695.1	673.3	650.5	625.6	600.8	576.0
152.5°	724.9	724.7	720.1	709.4	697.1	681.0	662.5	641.4	619.8	596.6	574.3
155°	693.0	695.1	690.9	683.7	672.3	660.8	645.3	628.7	609.1	589.4	571.8
157.5°	665.8	665.8	664.0	658.0	649.9	641.0	627.9	614.0	599.0	581.9	567.0
160°	648.5	648.5	647.4	642.2	635.0	627.8	616.4	604.9	591.5	577.0	564.5
162.5°	631.9	632.7	631.7	628.1	620.9	615.3	605.6	595.8	584.9	572.8	562.0
165°	608.1	609.1	609.1	604.9	600.8	596.6	589.4	582.2	573.9	564.5	557.3
167.5°	586.1	587.4	587.5	585.2	583.4	579.7	574.7	569.1	563.1	557.3	552.5
170°	572.8	574.9	576.0	572.8	571.8	569.7	565.6	562.5	557.3	553.1	550.0
172.5°	562.0	563.3	564.4	562.9	561.9	560.6	557.3	555.0	551.5	548.2	546.7
175°	548.0	550.0	551.1	550.0	550.0	549.0	548.0	547.0	543.9	542.8	541.8
177.5°	539.5	541.2	542.0	542.0	542.0	542.0	541.2	541.2	539.5	538.7	539.5
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	540.8	539.6	538.8	535.8	533.2	530.7	529.9	530.1	526.6	523.2	521.7
5°	562.0	557.9	554.0	548.6	542.1	534.9	531.4	528.5	521.4	513.7	509.3
7.5°	580.8	575.0	567.6	557.3	547.9	536.7	529.6	523.3	513.0	502.1	495.4
10°	592.3	584.4	574.9	562.3	550.8	537.2	527.7	518.2	506.0	493.0	484.9
12.5°	602.2	591.6	582.2	566.1	552.4	535.4	524.1	510.7	497.9	482.5	474.6
15°	625.7	606.1	588.3	570.0	553.2	529.5	516.9	498.9	482.1	463.1	454.0
17.5°	643.9	621.8	593.8	570.6	551.0	524.7	506.3	484.7	464.8	443.1	430.7
20°	654.2	628.9	598.8	571.2	547.8	517.7	497.7	475.6	452.4	427.8	414.5
22.5°	660.4	633.8	604.0	568.8	541.3	512.1	486.9	462.6	439.1	412.6	398.6
25°	662.4	638.1	606.5	566.8	533.2	500.2	469.8	446.2	417.7	393.0	372.6
27.5°	652.7	635.3	604.9	562.9	523.8	485.2	451.3	424.7	394.6	367.7	347.1
30°	640.9	630.8	601.2	559.1	516.3	474.8	437.6	407.3	377.4	350.3	329.1
32.5°	622.6	620.5	594.4	553.6	508.4	461.7	423.1	392.6	359.4	332.7	312.6
35°	586.7	596.4	580.0	541.3	493.5	443.0	401.3	366.4	332.0	306.5	287.7
37.5°	538.4	562.6	558.3	523.3	473.2	422.7	376.6	340.2	307.4	281.6	263.1
40°	505.2	536.0	540.5	509.4	459.1	407.0	358.1	321.9	289.9	266.4	247.7
42.5°	469.6	505.5	517.7	492.9	443.4	390.4	341.6	304.1	272.3	249.5	233.0
45°	409.8	457.4	479.5	465.3	417.5	363.2	313.0	274.9	246.1	224.6	211.9
47.5°	353.9	405.9	435.6	430.6	388.6	334.8	285.2	248.6	220.6	203.5	192.1
50°	314.4	367.8	403.7	405.4	367.8	314.6	264.7	230.3	204.6	188.6	179.2
52.5°	280.0	331.1	370.1	378.8	344.6	293.6	246.5	212.1	189.5	174.8	166.5
55°	235.1	278.3	321.6	337.5	310.1	261.5	217.9	187.8	166.5	156.4	149.1
57.5°	195.6	231.5	271.5	289.0	272.2	230.5	189.7	163.5	146.2	137.3	131.7
60°	174.6	203.0	238.6	259.5	244.9	207.9	172.2	147.2	133.0	125.2	119.9
62.5°	155.2	180.3	210.4	229.5	221.6	186.6	154.7	132.7	120.5	113.1	109.2
65°	128.0	147.8	171.2	188.8	183.5	157.0	130.8	112.0	102.3	96.4	93.4
67.5°	105.4	119.8	135.9	151.3	147.1	128.3	107.4	92.6	85.4	80.3	78.5
70°	91.1	102.1	116.5	128.9	125.4	110.0	93.4	80.8	74.5	70.3	68.5
72.5°	77.6	86.5	97.6	107.6	105.3	92.5	78.6	69.2	64.3	60.4	58.9
75°	58.6	65.5	72.1	78.8	78.2	68.3	60.2	52.9	49.0	46.0	45.4
77.5°	43.2	47.1	51.6	55.6	54.5	48.8	42.4	38.3	35.5	33.4	33.1
80°	33.0	35.2	38.5	41.3	39.9	37.5	32.4	29.3	27.4	25.3	24.5
82.5°	24.0	26.1	28.1	29.7	28.5	26.3	23.2	21.1	19.9	18.5	18.2
85°	12.6	13.7	14.6	15.0	14.6	13.2	11.8	11.0	9.9	9.3	9.1
87.5°	10.4	9.0	7.9	7.7	6.8	6.3	4.9	3.7	4.2	4.9	5.0
90°	28.0	20.7	15.5	12.4	10.3	8.3	4.1	1.1	4.1	8.3	10.3
92.5°	103.3	70.4	47.0	37.3	30.2	25.7	18.2	12.7	18.2	25.7	30.2
95°	239.2	149.2	101.5	76.7	60.1	50.7	40.4	36.3	40.4	50.7	60.1
97.5°	322.4	196.8	137.0	108.8	89.7	75.6	64.6	59.0	64.6	75.6	89.7
100°	339.7	213.4	158.5	129.5	108.8	92.2	82.8	79.7	82.8	92.2	108.8
102.5°	340.6	228.3	177.5	148.6	127.0	110.4	101.1	98.8	101.1	110.4	127.0
105°	346.0	253.8	205.1	176.1	153.3	137.8	130.5	126.4	130.5	137.8	153.3
107.5°	360.3	279.9	232.6	203.5	180.8	166.6	159.5	156.2	159.5	166.6	180.8
110°	371.8	297.3	251.7	221.7	199.9	186.5	180.2	176.1	180.2	186.5	199.9



TEST NUMBER: P331278-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	384.3	313.9	269.9	239.1	218.1	205.5	198.5	194.3	198.5	205.5	218.1
115°	403.0	339.7	295.2	267.2	246.6	234.1	227.9	222.7	227.9	234.1	246.6
117.5°	422.8	363.6	322.4	293.4	273.5	262.5	256.3	252.2	256.3	262.5	273.5
120°	436.1	380.1	339.7	310.8	290.1	280.7	274.5	270.4	274.5	280.7	290.1
122.5°	447.7	395.9	358.0	328.1	307.5	297.3	291.1	287.8	291.1	297.3	307.5
125°	466.2	419.5	382.3	353.2	332.5	320.1	313.9	310.8	313.9	320.1	332.5
127.5°	483.3	441.5	405.2	375.4	355.5	341.9	333.1	329.0	333.1	341.9	355.5
130°	494.1	454.8	418.5	389.5	368.8	354.3	343.9	339.7	343.9	354.3	368.8
132.5°	504.9	466.4	431.8	402.8	381.2	365.9	354.7	349.7	354.7	365.9	381.2
135°	519.0	482.7	449.6	420.5	396.7	381.2	368.8	364.6	368.8	381.2	396.7
137.5°	529.8	496.0	463.2	436.3	412.7	396.1	383.7	378.7	383.7	396.1	412.7
140°	535.6	503.5	472.3	445.4	422.7	406.1	393.6	389.5	393.6	406.1	422.7
142.5°	540.6	509.3	479.0	453.7	431.8	415.2	403.6	400.3	403.6	415.2	431.8
145°	547.0	517.9	490.0	467.2	446.5	431.0	420.5	416.4	420.5	431.0	446.5
147.5°	550.5	525.0	498.6	478.4	461.2	446.8	436.9	433.8	436.9	446.8	461.2
150°	552.1	528.3	504.4	485.8	470.3	456.8	448.5	445.4	448.5	456.8	470.3
152.5°	552.9	531.6	510.2	493.3	478.6	466.7	458.5	457.0	458.5	466.7	478.6
155°	554.2	536.5	519.0	503.5	492.0	480.6	474.4	473.4	474.4	480.6	492.0
157.5°	554.2	540.1	525.2	512.1	503.0	493.1	488.1	487.1	488.1	493.1	503.0
160°	554.2	541.8	529.3	517.9	509.6	501.3	497.2	496.1	497.2	501.3	509.6
162.5°	553.4	542.6	531.8	522.9	515.4	508.8	504.7	505.3	504.7	508.8	515.4
165°	551.1	543.9	534.5	528.3	523.1	516.9	514.9	515.9	514.9	516.9	523.1
167.5°	549.7	543.6	536.8	532.9	529.1	525.2	523.3	524.6	523.3	525.2	529.1
170°	548.0	542.8	537.6	534.5	532.4	529.3	528.3	530.4	528.3	529.3	532.4
172.5°	545.5	542.0	538.4	536.2	534.9	531.8	532.4	533.7	532.4	531.8	534.9
175°	542.8	540.7	538.7	537.6	537.6	535.6	536.5	537.6	536.5	535.6	537.6
177.5°	541.2	539.5	538.7	538.7	538.7	537.0	537.8	539.5	537.8	537.0	538.7
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331278-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	520.1	519.2	515.8	514.0	511.0	508.3	506.5	507.3	507.9	507.7	507.1
5°	505.2	501.3	495.4	490.4	486.8	480.1	477.2	475.8	474.6	473.2	471.8
7.5°	487.4	481.3	473.0	465.7	459.0	450.6	445.9	443.1	440.1	436.9	434.1
10°	474.8	466.3	457.4	447.3	439.2	431.7	425.0	420.5	416.4	412.6	409.8
12.5°	461.5	451.7	440.7	426.9	417.9	407.2	406.2	398.3	392.0	389.6	386.3
15°	440.4	426.6	412.6	396.2	389.1	379.4	373.4	367.2	361.8	357.9	357.0
17.5°	416.3	398.5	384.6	372.8	361.2	351.2	345.6	340.8	336.3	331.2	330.5
20°	398.1	382.6	367.5	357.1	345.2	335.0	328.1	323.3	319.4	316.4	313.8
22.5°	380.7	363.8	349.9	338.7	326.9	318.7	313.3	308.5	305.3	302.0	299.5
25°	352.8	339.7	324.5	311.7	302.0	296.8	292.3	288.3	286.2	284.0	281.2
27.5°	328.5	313.9	299.7	289.8	281.2	276.6	273.4	270.6	268.8	267.4	265.8
30°	311.4	296.6	285.4	275.7	268.6	263.9	261.9	260.3	258.1	257.3	256.5
32.5°	294.8	281.5	272.0	263.5	256.8	253.7	251.9	250.4	248.7	247.9	246.2
35°	271.4	260.3	251.0	246.3	240.9	238.2	236.8	234.8	233.2	232.4	232.1
37.5°	249.4	239.8	233.6	227.7	225.3	223.7	221.8	220.4	219.9	219.8	219.5
40°	235.1	227.3	221.8	217.0	216.0	213.5	211.9	210.7	210.7	210.9	210.7
42.5°	222.2	215.1	210.3	206.1	204.9	203.5	201.8	201.8	202.1	202.8	202.1
45°	202.6	197.5	194.0	192.1	189.8	188.4	188.2	188.8	189.0	189.2	189.8
47.5°	184.5	181.1	178.0	175.8	174.8	174.6	174.3	175.4	176.4	176.7	177.6
50°	173.8	170.0	167.3	165.9	165.1	164.7	165.1	166.3	167.1	168.1	168.7
52.5°	161.8	159.1	157.3	156.1	155.9	156.1	156.1	157.6	158.8	159.3	159.5
55°	145.3	143.2	142.9	141.0	141.8	141.6	142.6	143.4	144.6	145.9	146.1
57.5°	128.7	127.1	126.0	126.2	126.4	127.3	128.1	129.6	130.8	132.2	132.2
60°	117.7	116.9	116.3	116.3	116.6	117.9	118.9	120.3	121.1	122.0	122.5
62.5°	107.6	106.8	106.2	106.6	107.6	108.3	109.5	110.3	111.1	111.9	112.2
65°	91.8	91.4	91.9	92.4	92.6	93.5	95.0	95.6	96.4	96.8	98.3
67.5°	77.1	77.2	77.1	77.7	78.9	79.1	80.4	81.9	82.0	82.8	83.7
70°	67.2	67.7	68.0	68.5	69.5	69.9	70.9	71.5	72.3	72.9	73.6
72.5°	58.1	58.2	58.7	58.6	59.5	60.3	61.2	61.8	62.6	63.4	63.9
75°	44.8	44.8	45.2	45.4	46.4	47.4	47.2	47.6	48.4	49.2	49.7
77.5°	32.7	32.3	32.7	32.9	33.3	34.1	34.2	34.8	35.8	35.5	35.9
80°	24.9	24.3	24.9	25.1	25.1	26.1	26.1	26.6	27.1	26.6	27.1
82.5°	17.7	17.5	17.9	18.0	18.3	18.4	18.6	18.7	19.4	19.1	19.4
85°	8.9	8.7	8.9	8.7	8.9	9.1	9.1	8.9	8.9	9.3	8.7
87.5°	5.3	5.7	6.6	8.0	9.1	9.2	8.7	8.6	8.2	8.3	8.5
90°	12.4	15.5	20.7	28.0	34.2	35.2	34.2	33.2	31.1	33.2	34.2
92.5°	37.3	47.0	70.4	103.3	132.8	134.6	113.8	90.3	77.5	68.8	62.3
95°	76.7	101.5	149.2	239.2	359.4	406.1	355.3	271.4	208.2	164.7	141.9
97.5°	108.8	137.0	196.8	322.4	522.1	693.2	727.2	633.3	518.2	406.1	331.3
100°	129.5	158.5	213.4	339.7	563.5	818.3	967.5	945.7	817.3	675.4	550.0
102.5°	148.6	177.5	228.3	340.6	547.8	822.5	1057.0	1150.5	1121.4	1017.6	884.8
105°	176.1	205.1	253.8	346.0	516.9	767.6	1043.1	1258.6	1375.6	1389.1	1355.0
107.5°	203.5	232.6	279.9	360.3	501.6	708.7	952.2	1180.7	1357.0	1464.7	1514.8
110°	221.7	251.7	297.3	371.8	498.3	680.6	895.0	1113.6	1299.0	1431.6	1516.5



TEST NUMBER: P331278-940

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	239.1	269.9	313.9	384.3	499.1	662.4	855.2	1052.2	1230.2	1371.9	1469.3
115°	267.2	295.2	339.7	403.0	503.5	642.2	805.9	976.9	1136.4	1272.0	1378.8
117.5°	293.4	322.4	363.6	422.8	510.9	632.5	774.8	920.1	1060.2	1183.2	1283.3
120°	310.8	339.7	380.1	436.1	515.9	626.7	758.2	891.9	1020.3	1130.2	1224.4
122.5°	328.1	358.0	395.9	447.7	521.7	623.4	744.1	869.5	987.2	1091.2	1176.3
125°	353.2	382.3	419.5	466.2	530.4	617.4	724.1	837.0	943.7	1034.8	1112.5
127.5°	375.4	405.2	441.5	483.3	539.3	613.9	705.4	804.9	901.4	987.4	1059.1
130°	389.5	418.5	454.8	494.1	545.9	612.2	693.0	784.2	873.3	955.1	1023.4
132.5°	402.8	431.8	466.4	504.9	552.5	611.4	683.1	764.3	846.8	921.9	986.1
135°	420.5	449.6	482.7	519.0	560.4	610.1	669.1	736.5	804.9	873.3	931.2
137.5°	436.3	463.2	496.0	529.8	567.5	609.9	659.4	714.3	771.5	825.8	876.4
140°	445.4	472.3	503.5	535.6	570.8	609.1	653.6	700.3	750.0	797.6	843.2
142.5°	453.7	479.0	509.3	540.6	573.3	609.1	647.8	688.7	730.9	772.0	810.0
145°	467.2	490.0	517.9	547.0	576.0	607.0	640.2	672.3	706.5	738.6	768.7
147.5°	478.4	498.6	525.0	550.5	576.8	603.3	632.3	659.7	686.6	711.7	733.6
150°	485.8	504.4	528.3	552.1	576.0	600.8	625.6	650.5	673.3	695.1	713.7
152.5°	493.3	510.2	531.6	552.9	574.3	596.6	619.8	641.4	662.5	681.0	697.1
155°	503.5	519.0	536.5	554.2	571.8	589.4	609.1	628.7	645.3	660.8	672.3
157.5°	512.1	525.2	540.1	554.2	567.0	581.9	599.0	614.0	627.9	641.0	649.9
160°	517.9	529.3	541.8	554.2	564.5	577.0	591.5	604.9	616.4	627.8	635.0
162.5°	522.9	531.8	542.6	553.4	562.0	572.8	584.9	595.8	605.6	615.3	620.9
165°	528.3	534.5	543.9	551.1	557.3	564.5	573.9	582.2	589.4	596.6	600.8
167.5°	532.9	536.8	543.6	549.7	552.5	557.3	563.1	569.1	574.7	579.7	583.4
170°	534.5	537.6	542.8	548.0	550.0	553.1	557.3	562.5	565.6	569.7	571.8
172.5°	536.2	538.4	542.0	545.5	546.7	548.2	551.5	555.0	557.3	560.6	561.9
175°	537.6	538.7	540.7	542.8	541.8	542.8	543.9	547.0	548.0	549.0	550.0
177.5°	538.7	538.7	539.5	541.2	539.5	538.7	539.5	541.2	541.2	542.0	542.0
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331278-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	505.5	505.2	505.2	503.7	505.2	505.2	505.5	507.1	507.7	507.9	507.3
5°	469.0	468.3	467.3	468.3	467.3	468.3	469.0	471.8	473.2	474.6	475.8
7.5°	432.7	430.3	430.0	427.6	430.0	430.3	432.7	434.1	436.9	440.1	443.1
10°	406.4	404.7	404.5	400.6	404.5	404.7	406.4	409.8	412.6	416.4	420.5
12.5°	386.3	382.4	383.2	380.9	383.2	382.4	386.3	386.3	389.6	392.0	398.3
15°	351.4	351.4	350.6	347.2	350.6	351.4	351.4	357.0	357.9	361.8	367.2
17.5°	326.5	326.0	324.1	325.1	324.1	326.0	326.5	330.5	331.2	336.3	340.8
20°	311.6	310.3	307.9	307.9	307.9	310.3	311.6	313.8	316.4	319.4	323.3
22.5°	297.5	297.4	294.8	295.6	294.8	297.4	297.5	299.5	302.0	305.3	308.5
25°	281.0	279.4	278.1	278.7	278.1	279.4	281.0	281.2	284.0	286.2	288.3
27.5°	265.3	264.4	264.3	262.7	264.3	264.4	265.3	265.8	267.4	268.8	270.6
30°	256.3	254.2	254.6	253.6	254.6	254.2	256.3	256.5	257.3	258.1	260.3
32.5°	245.8	245.1	244.8	243.9	244.8	245.1	245.8	246.2	247.9	248.7	250.4
35°	231.8	231.9	231.0	231.3	231.0	231.9	231.8	232.1	232.4	233.2	234.8
37.5°	219.4	220.0	219.5	219.6	219.5	220.0	219.4	219.5	219.8	219.9	220.4
40°	211.2	211.2	211.2	211.9	211.2	211.2	211.2	210.7	210.9	210.7	210.7
42.5°	203.5	203.1	202.9	202.8	202.9	203.1	203.5	202.1	202.8	202.1	201.8
45°	190.2	190.8	191.0	190.0	191.0	190.8	190.2	189.8	189.2	189.0	188.8
47.5°	178.2	178.3	178.2	179.1	178.2	178.3	178.2	177.6	176.7	176.4	175.4
50°	169.8	169.3	169.8	169.3	169.8	169.3	169.8	168.7	168.1	167.1	166.3
52.5°	160.9	161.0	160.7	160.6	160.7	161.0	160.9	159.5	159.3	158.8	157.6
55°	146.9	147.2	147.0	147.0	147.0	147.2	146.9	146.1	145.9	144.6	143.4
57.5°	132.4	132.8	133.0	132.2	133.0	132.8	132.4	132.2	132.2	130.8	129.6
60°	122.3	123.3	123.1	122.8	123.1	123.3	122.3	122.5	122.0	121.1	120.3
62.5°	113.1	113.5	113.4	113.3	113.4	113.5	113.1	112.2	111.9	111.1	110.3
65°	98.9	99.2	98.6	99.2	98.6	99.2	98.9	98.3	96.8	96.4	95.6
67.5°	83.5	83.6	84.1	84.4	84.1	83.6	83.5	83.7	82.8	82.0	81.9
70°	73.9	73.7	74.4	75.0	74.4	73.7	73.9	73.6	72.9	72.3	71.5
72.5°	63.8	64.3	64.1	64.6	64.1	64.3	63.8	63.9	63.4	62.6	61.8
75°	49.2	49.8	49.7	50.2	49.7	49.8	49.2	49.7	49.2	48.4	47.6
77.5°	35.6	35.7	35.6	35.9	35.6	35.7	35.6	35.9	35.5	35.8	34.8
80°	27.1	26.8	26.3	27.1	26.3	26.8	27.1	27.1	26.6	27.1	26.6
82.5°	18.9	19.1	18.7	18.7	18.7	19.1	18.9	19.4	19.1	19.4	18.7
85°	8.7	8.5	8.1	8.1	8.1	8.5	8.7	8.7	9.3	8.9	8.9
87.5°	8.5	8.3	8.3	8.1	8.3	8.3	8.5	8.5	8.3	8.2	8.6
90°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	33.2	31.1	33.2
92.5°	61.5	58.2	59.0	57.4	59.0	58.2	61.5	62.3	68.8	77.5	90.3
95°	128.4	120.2	117.1	118.1	117.1	120.2	128.4	141.9	164.7	208.2	271.4
97.5°	281.8	256.3	241.1	232.5	241.1	256.3	281.8	331.3	406.1	518.2	633.3
100°	464.0	419.5	389.5	370.9	389.5	419.5	464.0	550.0	675.4	817.3	945.7
102.5°	791.4	715.4	677.9	652.6	677.9	715.4	791.4	884.8	1017.6	1121.4	1150.5
105°	1290.7	1226.5	1182.0	1167.4	1182.0	1226.5	1290.7	1355.0	1389.1	1375.6	1258.6
107.5°	1523.0	1519.4	1510.5	1491.2	1510.5	1519.4	1523.0	1514.8	1464.7	1357.0	1180.7
110°	1561.0	1580.7	1590.1	1589.0	1590.1	1580.7	1561.0	1516.5	1431.6	1299.0	1113.6



TEST NUMBER: P331278-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1531.2	1564.1	1581.8	1587.3	1581.8	1564.1	1531.2	1469.3	1371.9	1230.2	1052.2
115°	1452.3	1499.9	1526.9	1536.2	1526.9	1499.9	1452.3	1378.8	1272.0	1136.4	976.9
117.5°	1358.3	1408.5	1437.0	1444.8	1437.0	1408.5	1358.3	1283.3	1183.2	1060.2	920.1
120°	1296.9	1345.6	1375.6	1386.0	1375.6	1345.6	1296.9	1224.4	1130.2	1020.3	891.9
122.5°	1241.4	1289.2	1316.0	1324.6	1316.0	1289.2	1241.4	1176.3	1091.2	987.2	869.5
125°	1172.6	1212.0	1237.9	1246.2	1237.9	1212.0	1172.6	1112.5	1034.8	943.7	837.0
127.5°	1111.5	1148.3	1170.7	1177.4	1170.7	1148.3	1111.5	1059.1	987.4	901.4	804.9
130°	1074.2	1109.5	1130.2	1138.4	1130.2	1109.5	1074.2	1023.4	955.1	873.3	784.2
132.5°	1036.1	1071.3	1090.4	1097.8	1090.4	1071.3	1036.1	986.1	921.9	846.8	764.3
135°	975.8	1010.0	1028.6	1032.8	1028.6	1010.0	975.8	931.2	873.3	804.9	736.5
137.5°	916.9	946.4	962.8	968.9	962.8	946.4	916.9	876.4	825.8	771.5	714.3
140°	876.4	903.3	918.8	925.1	918.8	903.3	876.4	843.2	797.6	750.0	700.3
142.5°	841.5	866.0	879.9	881.1	879.9	866.0	841.5	810.0	772.0	730.9	688.7
145°	793.4	811.1	821.4	824.6	821.4	811.1	793.4	768.7	738.6	706.5	672.3
147.5°	754.1	768.2	775.3	777.1	775.3	768.2	754.1	733.6	711.7	686.6	659.7
150°	729.2	741.7	747.9	748.9	747.9	741.7	729.2	713.7	695.1	673.3	650.5
152.5°	709.4	720.1	724.7	724.9	724.7	720.1	709.4	697.1	681.0	662.5	641.4
155°	683.7	690.9	695.1	693.0	695.1	690.9	683.7	672.3	660.8	645.3	628.7
157.5°	658.0	664.0	665.8	665.8	665.8	664.0	658.0	649.9	641.0	627.9	614.0
160°	642.2	647.4	648.5	648.5	648.5	647.4	642.2	635.0	627.8	616.4	604.9
162.5°	628.1	631.7	632.7	631.9	632.7	631.7	628.1	620.9	615.3	605.6	595.8
165°	604.9	609.1	609.1	608.1	609.1	609.1	604.9	600.8	596.6	589.4	582.2
167.5°	585.2	587.5	587.4	586.1	587.4	587.5	585.2	583.4	579.7	574.7	569.1
170°	572.8	576.0	574.9	572.8	574.9	576.0	572.8	571.8	569.7	565.6	562.5
172.5°	562.9	564.4	563.3	562.0	563.3	564.4	562.9	561.9	560.6	557.3	555.0
175°	550.0	551.1	550.0	548.0	550.0	551.1	550.0	550.0	549.0	548.0	547.0
177.5°	542.0	542.0	541.2	539.5	541.2	542.0	542.0	542.0	542.0	541.2	541.2
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331278-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	506.5	508.3	511.0	514.0	515.8	519.2	520.1	521.7	523.2	526.6	530.1
5°	477.2	480.1	486.8	490.4	495.4	501.3	505.2	509.3	513.7	521.4	528.5
7.5°	445.9	450.6	459.0	465.7	473.0	481.3	487.4	495.4	502.1	513.0	523.3
10°	425.0	431.7	439.2	447.3	457.4	466.3	474.8	484.9	493.0	506.0	518.2
12.5°	406.2	407.2	417.9	426.9	440.7	451.7	461.5	474.6	482.5	497.9	510.7
15°	373.4	379.4	389.1	396.2	412.6	426.6	440.4	454.0	463.1	482.1	498.9
17.5°	345.6	351.2	361.2	372.8	384.6	398.5	416.3	430.7	443.1	464.8	484.7
20°	328.1	335.0	345.2	357.1	367.5	382.6	398.1	414.5	427.8	452.4	475.6
22.5°	313.3	318.7	326.9	338.7	349.9	363.8	380.7	398.6	412.6	439.1	462.6
25°	292.3	296.8	302.0	311.7	324.5	339.7	352.8	372.6	393.0	417.7	446.2
27.5°	273.4	276.6	281.2	289.8	299.7	313.9	328.5	347.1	367.7	394.6	424.7
30°	261.9	263.9	268.6	275.7	285.4	296.6	311.4	329.1	350.3	377.4	407.3
32.5°	251.9	253.7	256.8	263.5	272.0	281.5	294.8	312.6	332.7	359.4	392.6
35°	236.8	238.2	240.9	246.3	251.0	260.3	271.4	287.7	306.5	332.0	366.4
37.5°	221.8	223.7	225.3	227.7	233.6	239.8	249.4	263.1	281.6	307.4	340.2
40°	211.9	213.5	216.0	217.0	221.8	227.3	235.1	247.7	266.4	289.9	321.9
42.5°	201.8	203.5	204.9	206.1	210.3	215.1	222.2	233.0	249.5	272.3	304.1
45°	188.2	188.4	189.8	192.1	194.0	197.5	202.6	211.9	224.6	246.1	274.9
47.5°	174.3	174.6	174.8	175.8	178.0	181.1	184.5	192.1	203.5	220.6	248.6
50°	165.1	164.7	165.1	165.9	167.3	170.0	173.8	179.2	188.6	204.6	230.3
52.5°	156.1	156.1	155.9	156.1	157.3	159.1	161.8	166.5	174.8	189.5	212.1
55°	142.6	141.6	141.8	141.0	142.9	143.2	145.3	149.1	156.4	166.5	187.8
57.5°	128.1	127.3	126.4	126.2	126.0	127.1	128.7	131.7	137.3	146.2	163.5
60°	118.9	117.9	116.6	116.3	116.3	116.9	117.7	119.9	125.2	133.0	147.2
62.5°	109.5	108.3	107.6	106.6	106.2	106.8	107.6	109.2	113.1	120.5	132.7
65°	95.0	93.5	92.6	92.4	91.9	91.4	91.8	93.4	96.4	102.3	112.0
67.5°	80.4	79.1	78.9	77.7	77.1	77.2	77.1	78.5	80.3	85.4	92.6
70°	70.9	69.9	69.5	68.5	68.0	67.7	67.2	68.5	70.3	74.5	80.8
72.5°	61.2	60.3	59.5	58.6	58.7	58.2	58.1	58.9	60.4	64.3	69.2
75°	47.2	47.4	46.4	45.4	45.2	44.8	44.8	45.4	46.0	49.0	52.9
77.5°	34.2	34.1	33.3	32.9	32.7	32.3	32.7	33.1	33.4	35.5	38.3
80°	26.1	26.1	25.1	25.1	24.9	24.3	24.9	24.5	25.3	27.4	29.3
82.5°	18.6	18.4	18.3	18.0	17.9	17.5	17.7	18.2	18.5	19.9	21.1
85°	9.1	9.1	8.9	8.7	8.9	8.7	8.9	9.1	9.3	9.9	11.0
87.5°	8.7	9.2	9.1	8.0	6.6	5.7	5.3	5.0	4.9	4.2	3.7
90°	34.2	35.2	34.2	28.0	20.7	15.5	12.4	10.3	8.3	4.1	1.1
92.5°	113.8	134.6	132.8	103.3	70.4	47.0	37.3	30.2	25.7	18.2	12.7
95°	355.3	406.1	359.4	239.2	149.2	101.5	76.7	60.1	50.7	40.4	36.3
97.5°	727.2	693.2	522.1	322.4	196.8	137.0	108.8	89.7	75.6	64.6	59.0
100°	967.5	818.3	563.5	339.7	213.4	158.5	129.5	108.8	92.2	82.8	79.7
102.5°	1057.0	822.5	547.8	340.6	228.3	177.5	148.6	127.0	110.4	101.1	98.8
105°	1043.1	767.6	516.9	346.0	253.8	205.1	176.1	153.3	137.8	130.5	126.4
107.5°	952.2	708.7	501.6	360.3	279.9	232.6	203.5	180.8	166.6	159.5	156.2
110°	895.0	680.6	498.3	371.8	297.3	251.7	221.7	199.9	186.5	180.2	176.1



TEST NUMBER: P331278-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	855.2	662.4	499.1	384.3	313.9	269.9	239.1	218.1	205.5	198.5	194.3
115°	805.9	642.2	503.5	403.0	339.7	295.2	267.2	246.6	234.1	227.9	222.7
117.5°	774.8	632.5	510.9	422.8	363.6	322.4	293.4	273.5	262.5	256.3	252.2
120°	758.2	626.7	515.9	436.1	380.1	339.7	310.8	290.1	280.7	274.5	270.4
122.5°	744.1	623.4	521.7	447.7	395.9	358.0	328.1	307.5	297.3	291.1	287.8
125°	724.1	617.4	530.4	466.2	419.5	382.3	353.2	332.5	320.1	313.9	310.8
127.5°	705.4	613.9	539.3	483.3	441.5	405.2	375.4	355.5	341.9	333.1	329.0
130°	693.0	612.2	545.9	494.1	454.8	418.5	389.5	368.8	354.3	343.9	339.7
132.5°	683.1	611.4	552.5	504.9	466.4	431.8	402.8	381.2	365.9	354.7	349.7
135°	669.1	610.1	560.4	519.0	482.7	449.6	420.5	396.7	381.2	368.8	364.6
137.5°	659.4	609.9	567.5	529.8	496.0	463.2	436.3	412.7	396.1	383.7	378.7
140°	653.6	609.1	570.8	535.6	503.5	472.3	445.4	422.7	406.1	393.6	389.5
142.5°	647.8	609.1	573.3	540.6	509.3	479.0	453.7	431.8	415.2	403.6	400.3
145°	640.2	607.0	576.0	547.0	517.9	490.0	467.2	446.5	431.0	420.5	416.4
147.5°	632.3	603.3	576.8	550.5	525.0	498.6	478.4	461.2	446.8	436.9	433.8
150°	625.6	600.8	576.0	552.1	528.3	504.4	485.8	470.3	456.8	448.5	445.4
152.5°	619.8	596.6	574.3	552.9	531.6	510.2	493.3	478.6	466.7	458.5	457.0
155°	609.1	589.4	571.8	554.2	536.5	519.0	503.5	492.0	480.6	474.4	473.4
157.5°	599.0	581.9	567.0	554.2	540.1	525.2	512.1	503.0	493.1	488.1	487.1
160°	591.5	577.0	564.5	554.2	541.8	529.3	517.9	509.6	501.3	497.2	496.1
162.5°	584.9	572.8	562.0	553.4	542.6	531.8	522.9	515.4	508.8	504.7	505.3
165°	573.9	564.5	557.3	551.1	543.9	534.5	528.3	523.1	516.9	514.9	515.9
167.5°	563.1	557.3	552.5	549.7	543.6	536.8	532.9	529.1	525.2	523.3	524.6
170°	557.3	553.1	550.0	548.0	542.8	537.6	534.5	532.4	529.3	528.3	530.4
172.5°	551.5	548.2	546.7	545.5	542.0	538.4	536.2	534.9	531.8	532.4	533.7
175°	543.9	542.8	541.8	542.8	540.7	538.7	537.6	537.6	535.6	536.5	537.6
177.5°	539.5	538.7	539.5	541.2	539.5	538.7	538.7	538.7	537.0	537.8	539.5
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



TEST NUMBER: P331278-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	529.9	530.7	533.2	535.8	538.8	539.6	540.8	539.8	539.4	542.4	544.7
5°	531.4	534.9	542.1	548.6	554.0	557.9	562.0	563.6	566.6	570.8	576.1
7.5°	529.6	536.7	547.9	557.3	567.6	575.0	580.8	585.8	591.7	599.8	608.6
10°	527.7	537.2	550.8	562.3	574.9	584.4	592.3	600.0	608.9	620.1	631.6
12.5°	524.1	535.4	552.4	566.1	582.2	591.6	602.2	618.8	628.4	643.9	660.1
15°	516.9	529.5	553.2	570.0	588.3	606.1	625.7	641.5	657.3	666.5	689.3
17.5°	506.3	524.7	551.0	570.6	593.8	621.8	643.9	661.8	680.0	694.8	706.3
20°	497.7	517.7	547.8	571.2	598.8	628.9	654.2	672.5	688.3	700.7	707.8
22.5°	486.9	512.1	541.3	568.8	604.0	633.8	660.4	674.8	688.0	694.0	696.8
25°	469.8	500.2	533.2	566.8	606.5	638.1	662.4	671.1	674.9	669.1	659.3
27.5°	451.3	485.2	523.8	562.9	604.9	635.3	652.7	651.4	644.9	625.8	610.6
30°	437.6	474.8	516.3	559.1	601.2	630.8	640.9	630.8	616.0	594.8	573.0
32.5°	423.1	461.7	508.4	553.6	594.4	620.5	622.6	605.2	582.3	558.1	531.1
35°	401.3	443.0	493.5	541.3	580.0	596.4	586.7	555.8	528.7	495.7	458.8
37.5°	376.6	422.7	473.2	523.3	558.3	562.6	538.4	506.0	467.7	428.9	385.5
40°	358.1	407.0	459.1	509.4	540.5	536.0	505.2	469.6	424.0	376.6	336.3
42.5°	341.6	390.4	443.4	492.9	517.7	505.5	469.6	425.8	376.8	332.2	295.2
45°	313.0	363.2	417.5	465.3	479.5	457.4	409.8	361.1	313.0	275.7	246.6
47.5°	285.2	334.8	388.6	430.6	435.6	405.9	353.9	303.9	262.4	232.1	211.5
50°	264.7	314.6	367.8	405.4	403.7	367.8	314.4	266.8	232.1	207.6	193.9
52.5°	246.5	293.6	344.6	378.8	370.1	331.1	280.0	237.7	209.3	190.1	177.6
55°	217.9	261.5	310.1	337.5	321.6	278.3	235.1	201.2	180.0	165.7	156.0
57.5°	189.7	230.5	272.2	289.0	271.5	231.5	195.6	170.9	155.0	144.4	138.0
60°	172.2	207.9	244.9	259.5	238.6	203.0	174.6	152.6	139.7	131.1	125.4
62.5°	154.7	186.6	221.6	229.5	210.4	180.3	155.2	136.8	126.4	118.6	113.2
65°	130.8	157.0	183.5	188.8	171.2	147.8	128.0	116.1	106.7	101.1	96.8
67.5°	107.4	128.3	147.1	151.3	135.9	119.8	105.4	95.0	88.7	84.0	80.3
70°	93.4	110.0	125.4	128.9	116.5	102.1	91.1	82.8	77.1	73.1	69.6
72.5°	78.6	92.5	105.3	107.6	97.6	86.5	77.6	71.0	66.0	63.4	60.1
75°	60.2	68.3	78.2	78.8	72.1	65.5	58.6	54.3	51.6	48.4	46.8
77.5°	42.4	48.8	54.5	55.6	51.6	47.1	43.2	39.9	37.6	36.1	34.6
80°	32.4	37.5	39.9	41.3	38.5	35.2	33.0	30.8	29.3	28.4	27.4
82.5°	23.2	26.3	28.5	29.7	28.1	26.1	24.0	22.6	21.6	20.8	20.4
85°	11.8	13.2	14.6	15.0	14.6	13.7	12.6	12.6	11.9	11.8	11.8
87.5°	4.9	6.3	6.8	7.7	7.9	9.0	10.4	11.5	11.6	11.2	10.9
90°	4.1	8.3	10.3	12.4	15.5	20.7	28.0	34.2	35.2	34.2	33.2
92.5°	18.2	25.7	30.2	37.3	47.0	70.4	103.3	132.8	134.6	113.8	90.3
95°	40.4	50.7	60.1	76.7	101.5	149.2	239.2	359.4	406.1	355.3	271.4
97.5°	64.6	75.6	89.7	108.8	137.0	196.8	322.4	522.1	693.2	727.2	633.3
100°	82.8	92.2	108.8	129.5	158.5	213.4	339.7	563.5	818.3	967.5	945.7
102.5°	101.1	110.4	127.0	148.6	177.5	228.3	340.6	547.8	822.5	1057.0	1150.5
105°	130.5	137.8	153.3	176.1	205.1	253.8	346.0	516.9	767.6	1043.1	1258.6
107.5°	159.5	166.6	180.8	203.5	232.6	279.9	360.3	501.6	708.7	952.2	1180.7
110°	180.2	186.5	199.9	221.7	251.7	297.3	371.8	498.3	680.6	895.0	1113.6



TEST NUMBER: P331278-940

CATALOG NUMBER: SA2XXDIP-C290D1080U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	198.5	205.5	218.1	239.1	269.9	313.9	384.3	499.1	662.4	855.2	1052.2
115°	227.9	234.1	246.6	267.2	295.2	339.7	403.0	503.5	642.2	805.9	976.9
117.5°	256.3	262.5	273.5	293.4	322.4	363.6	422.8	510.9	632.5	774.8	920.1
120°	274.5	280.7	290.1	310.8	339.7	380.1	436.1	515.9	626.7	758.2	891.9
122.5°	291.1	297.3	307.5	328.1	358.0	395.9	447.7	521.7	623.4	744.1	869.5
125°	313.9	320.1	332.5	353.2	382.3	419.5	466.2	530.4	617.4	724.1	837.0
127.5°	333.1	341.9	355.5	375.4	405.2	441.5	483.3	539.3	613.9	705.4	804.9
130°	343.9	354.3	368.8	389.5	418.5	454.8	494.1	545.9	612.2	693.0	784.2
132.5°	354.7	365.9	381.2	402.8	431.8	466.4	504.9	552.5	611.4	683.1	764.3
135°	368.8	381.2	396.7	420.5	449.6	482.7	519.0	560.4	610.1	669.1	736.5
137.5°	383.7	396.1	412.7	436.3	463.2	496.0	529.8	567.5	609.9	659.4	714.3
140°	393.6	406.1	422.7	445.4	472.3	503.5	535.6	570.8	609.1	653.6	700.3
142.5°	403.6	415.2	431.8	453.7	479.0	509.3	540.6	573.3	609.1	647.8	688.7
145°	420.5	431.0	446.5	467.2	490.0	517.9	547.0	576.0	607.0	640.2	672.3
147.5°	436.9	446.8	461.2	478.4	498.6	525.0	550.5	576.8	603.3	632.3	659.7
150°	448.5	456.8	470.3	485.8	504.4	528.3	552.1	576.0	600.8	625.6	650.5
152.5°	458.5	466.7	478.6	493.3	510.2	531.6	552.9	574.3	596.6	619.8	641.4
155°	474.4	480.6	492.0	503.5	519.0	536.5	554.2	571.8	589.4	609.1	628.7
157.5°	488.1	493.1	503.0	512.1	525.2	540.1	554.2	567.0	581.9	599.0	614.0
160°	497.2	501.3	509.6	517.9	529.3	541.8	554.2	564.5	577.0	591.5	604.9
162.5°	504.7	508.8	515.4	522.9	531.8	542.6	553.4	562.0	572.8	584.9	595.8
165°	514.9	516.9	523.1	528.3	534.5	543.9	551.1	557.3	564.5	573.9	582.2
167.5°	523.3	525.2	529.1	532.9	536.8	543.6	549.7	552.5	557.3	563.1	569.1
170°	528.3	529.3	532.4	534.5	537.6	542.8	548.0	550.0	553.1	557.3	562.5
172.5°	532.4	531.8	534.9	536.2	538.4	542.0	545.5	546.7	548.2	551.5	555.0
175°	536.5	535.6	537.6	537.6	538.7	540.7	542.8	541.8	542.8	543.9	547.0
177.5°	537.8	537.0	538.7	538.7	538.7	539.5	541.2	539.5	538.7	539.5	541.2
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7	538.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	546.7	548.9	548.9	549.3	551.9	551.5	551.3
5°	581.8	585.2	585.6	589.2	591.7	590.8	588.6
7.5°	614.8	621.3	626.2	628.8	632.0	634.0	633.1
10°	641.1	650.4	656.1	660.0	664.6	668.1	666.8
12.5°	664.9	676.0	683.9	690.5	691.0	695.4	692.4
15°	702.1	713.8	715.1	719.9	723.8	723.4	723.5
17.5°	714.3	718.1	718.9	719.0	719.1	717.6	714.5
20°	710.0	708.6	705.2	702.5	697.9	697.2	693.2
22.5°	689.2	684.7	676.1	670.4	663.2	661.3	660.1
25°	648.5	638.5	624.7	611.5	607.9	600.8	602.8
27.5°	592.4	576.9	562.0	551.3	541.6	531.0	534.0
30°	553.0	535.6	514.5	498.3	487.9	477.9	476.0
32.5°	506.0	480.5	457.0	442.7	426.9	420.4	413.5
35°	425.0	400.0	376.7	356.7	345.2	336.3	328.1
37.5°	352.1	323.4	304.6	288.4	280.0	274.9	276.3
40°	306.9	281.8	268.0	255.7	247.9	244.3	245.1
42.5°	270.3	251.5	240.1	231.7	226.2	224.2	223.7
45°	228.7	218.2	208.8	204.0	201.3	199.1	197.7
47.5°	200.4	191.7	186.5	183.6	181.3	179.1	179.0
50°	183.3	177.6	174.0	170.9	169.2	167.6	169.0
52.5°	170.3	165.1	161.5	158.8	158.1	156.7	156.6
55°	151.1	147.0	144.5	142.0	140.8	140.0	138.9
57.5°	133.6	129.7	127.3	125.8	123.5	122.7	122.3
60°	121.1	118.1	115.7	113.6	112.6	111.0	111.0
62.5°	109.6	106.6	104.3	102.8	101.1	100.5	100.7
65°	93.0	90.5	88.3	86.7	86.3	85.1	85.5
67.5°	77.7	76.1	73.7	72.8	72.1	71.4	70.9
70°	67.4	65.8	64.6	63.4	62.8	62.8	62.8
72.5°	58.9	56.9	56.2	54.7	55.0	54.4	53.7
75°	45.6	44.3	43.8	43.2	42.2	42.2	42.2
77.5°	33.5	33.2	32.5	31.8	31.6	31.4	31.5
80°	25.9	25.7	25.3	25.3	24.9	24.7	24.3
82.5°	20.0	19.4	19.2	19.0	18.9	18.9	18.8
85°	11.3	11.0	11.0	11.1	10.7	10.7	11.0
87.5°	10.6	11.0	11.1	11.1	11.2	11.1	11.1
90°	31.1	33.2	34.2	34.2	34.2	34.2	34.2
92.5°	77.5	68.8	62.3	61.5	58.2	59.0	57.4
95°	208.2	164.7	141.9	128.4	120.2	117.1	118.1
97.5°	518.2	406.1	331.3	281.8	256.3	241.1	232.5
100°	817.3	675.4	550.0	464.0	419.5	389.5	370.9
102.5°	1121.4	1017.6	884.8	791.4	715.4	677.9	652.6
105°	1375.6	1389.1	1355.0	1290.7	1226.5	1182.0	1167.4
107.5°	1357.0	1464.7	1514.8	1523.0	1519.4	1510.5	1491.2
110°	1299.0	1431.6	1516.5	1561.0	1580.7	1590.1	1589.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1230.2	1371.9	1469.3	1531.2	1564.1	1581.8	1587.3
115°	1136.4	1272.0	1378.8	1452.3	1499.9	1526.9	1536.2
117.5°	1060.2	1183.2	1283.3	1358.3	1408.5	1437.0	1444.8
120°	1020.3	1130.2	1224.4	1296.9	1345.6	1375.6	1386.0
122.5°	987.2	1091.2	1176.3	1241.4	1289.2	1316.0	1324.6
125°	943.7	1034.8	1112.5	1172.6	1212.0	1237.9	1246.2
127.5°	901.4	987.4	1059.1	1111.5	1148.3	1170.7	1177.4
130°	873.3	955.1	1023.4	1074.2	1109.5	1130.2	1138.4
132.5°	846.8	921.9	986.1	1036.1	1071.3	1090.4	1097.8
135°	804.9	873.3	931.2	975.8	1010.0	1028.6	1032.8
137.5°	771.5	825.8	876.4	916.9	946.4	962.8	968.9
140°	750.0	797.6	843.2	876.4	903.3	918.8	925.1
142.5°	730.9	772.0	810.0	841.5	866.0	879.9	881.1
145°	706.5	738.6	768.7	793.4	811.1	821.4	824.6
147.5°	686.6	711.7	733.6	754.1	768.2	775.3	777.1
150°	673.3	695.1	713.7	729.2	741.7	747.9	748.9
152.5°	662.5	681.0	697.1	709.4	720.1	724.7	724.9
155°	645.3	660.8	672.3	683.7	690.9	695.1	693.0
157.5°	627.9	641.0	649.9	658.0	664.0	665.8	665.8
160°	616.4	627.8	635.0	642.2	647.4	648.5	648.5
162.5°	605.6	615.3	620.9	628.1	631.7	632.7	631.9
165°	589.4	596.6	600.8	604.9	609.1	609.1	608.1
167.5°	574.7	579.7	583.4	585.2	587.5	587.4	586.1
170°	565.6	569.7	571.8	572.8	576.0	574.9	572.8
172.5°	557.3	560.6	561.9	562.9	564.4	563.3	562.0
175°	548.0	549.0	550.0	550.0	551.1	550.0	548.0
177.5°	541.2	542.0	542.0	542.0	542.0	541.2	539.5
180°	538.7	538.7	538.7	538.7	538.7	538.7	538.7

(END OF REPORT)