

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P999469

Luminaire Tested: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999469
REPORT IS A COMBINATION OF REPORTS P988020 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

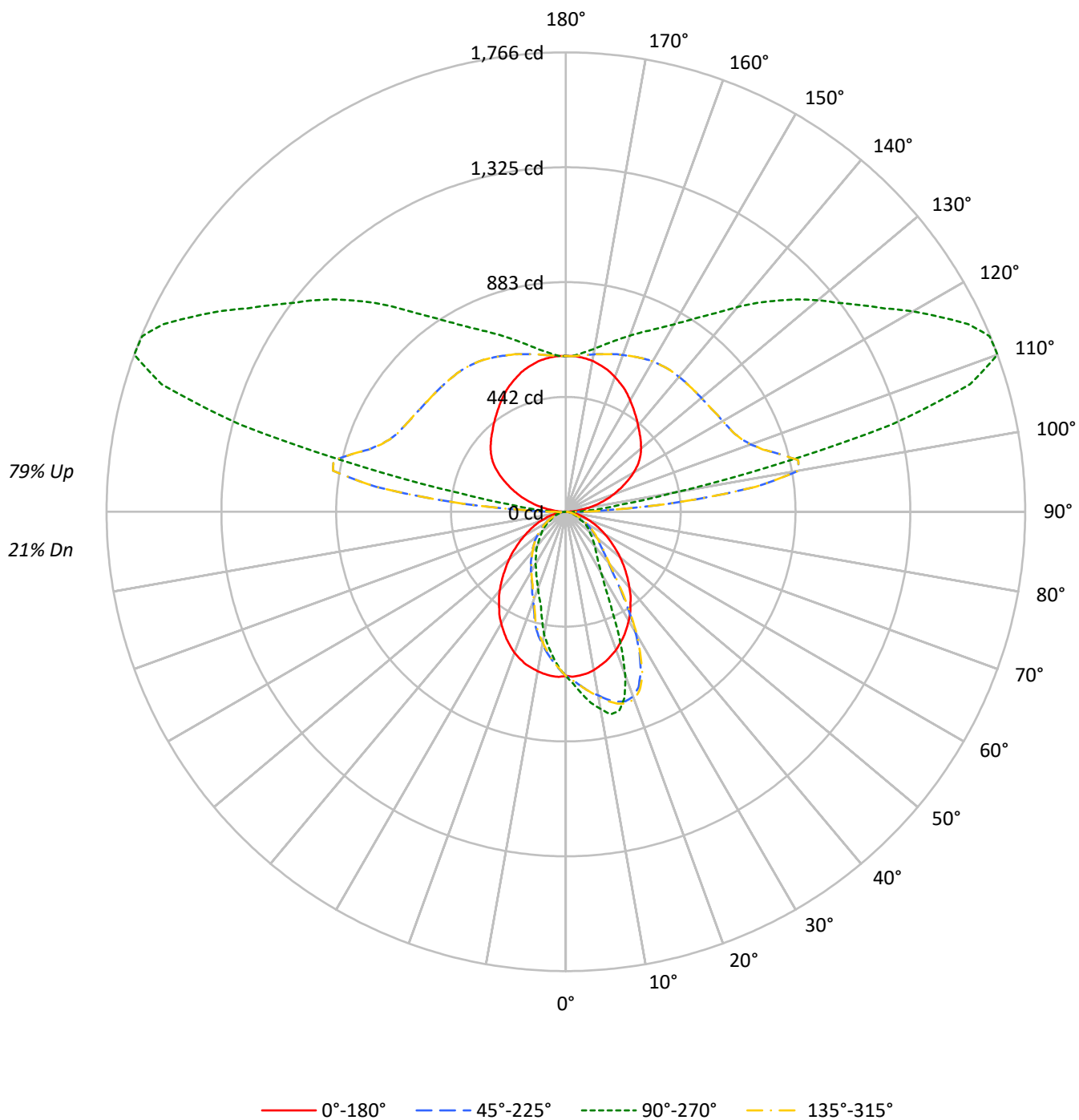
Lumens per Lamp: N/A
Luminaire Lumens: 5262.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
Input Voltage (V):
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: 24 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					0
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																					
0	100	100	100	100		89	89	89	89		67	67	67		47	47	47		29	29	29
1	92	88	84	81		81	78	75	72		59	57	55		42	41	40		26	26	25
2	84	77	71	66		74	68	63	60		52	49	46		37	35	34		24	23	22
3	76	68	61	56		67	60	55	50		46	42	39		33	31	29		21	20	19
4	70	60	53	47		62	53	47	43		41	37	34		30	27	25		19	18	17
5	64	53	46	40		57	48	41	37		37	32	29		27	24	22		17	16	15
6	59	48	40	35		52	43	36	32		33	29	25		24	21	19		16	14	13
7	55	43	36	31		48	39	32	28		30	26	22		22	19	17		15	13	12
8	51	39	32	27		45	35	29	25		27	23	20		20	17	15		13	12	11
9	47	36	29	24		42	32	26	22		25	21	18		19	16	14		12	11	10
10	44	33	26	21		39	29	24	20		23	19	16		17	14	12		12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9984	9984	9984	9984
5°	10008	10604	10043	8472
10°	9898	11209	9968	6996
15°	9683	11212	9847	5256
20°	9425	9268	9629	4336
25°	9110	5791	9307	3688
30°	8712	3709	8948	3175
35°	8225	2850	8491	2718
40°	7683	2395	8011	2377
45°	7102	2038	7399	1996
50°	6509	1733	6813	1726
55°	5851	1506	6166	1486
60°	5268	1148	5547	1134
65°	4721	865	5002	980
70°	4119	690	4443	798
75°	3479	528	3798	605
80°	2762	359	2978	395
85°	1921	186	2105	195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 9134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.1
10°-20°	167.0	3.2
20°-30°	214.9	4.1
30°-40°	203.9	3.9
40°-50°	174.7	3.3
50°-60°	133.1	2.5
60°-70°	83.9	1.6
70°-80°	41.9	0.8
80°-90°	14.6	0.3
90°-100°	233.3	4.4
100°-110°	821.7	15.6
110°-120°	863.0	16.4
120°-130°	709.9	13.5
130°-140°	570.3	10.8
140°-150°	430.8	8.2
150°-160°	302.9	5.8
160°-170°	178.3	3.4
170°-180°	58.0	1.1
0°-30°	441.7	8.4
0°-40°	645.6	12.3
0°-60°	953.4	18.1
0°-90°	1093.8	20.8
90°-120°	1918.0	36.4
90°-150°	3629.0	69.0
90°-180°	4168.0	79.2
0°-180°	5262.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	631	631	631	631	631	
5°	631	702	633	561	631	60
15°	595	792	605	371	595	167
25°	528	422	539	269	528	242
35°	433	208	447	199	433	271
45°	325	145	339	142	325	251
55°	220	100	231	99	220	198
65°	133	52	141	59	133	132
75°	62	28	68	32	62	67
85°	14	8	15	8	14	15
90°	1	38	1	38	1	4
95°	40	131	40	131	40	42
105°	140	1297	140	1297	140	149
115°	248	1707	248	1707	248	245
125°	345	1385	345	1385	345	307
135°	405	1148	405	1148	405	313
145°	463	916	463	916	463	290
155°	526	770	526	770	526	242
165°	573	676	573	676	573	162
175°	597	609	597	609	597	57
180°	598	598	598	598	598	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	634.7	637.3	638.6	640.4	644.3	647.0	650.9	651.8	651.3	653.1	648.3
5°	631.2	636.9	642.1	646.5	653.5	657.9	662.7	668.4	669.8	676.3	672.4
7.5°	626.4	634.7	642.1	650.9	661.4	667.1	674.6	683.3	687.3	695.2	697.4
10°	618.5	630.3	643.0	652.2	666.7	676.8	683.8	697.8	707.0	718.8	717.1
12.5°	605.8	621.1	638.2	653.5	672.4	679.0	692.1	706.6	718.4	729.4	739.0
15°	594.8	612.3	631.2	650.0	671.5	683.8	696.9	715.8	728.5	747.8	756.1
17.5°	579.9	602.3	624.6	645.6	671.1	685.1	701.3	719.7	738.6	757.0	763.6
20°	564.6	588.7	612.8	641.3	670.2	683.8	700.4	723.2	741.6	756.1	756.1
22.5°	546.1	575.5	603.1	630.3	661.9	681.6	698.7	725.4	738.6	741.6	729.8
25°	527.7	557.1	587.3	621.1	657.0	674.6	693.9	718.8	723.2	711.0	680.3
27.5°	505.8	538.7	572.9	609.3	647.0	668.9	686.4	703.1	694.7	661.9	614.1
30°	483.5	519.0	557.5	592.2	637.8	657.9	672.8	677.6	651.3	597.9	536.1
32.5°	460.2	494.9	535.6	577.3	623.3	642.6	652.2	639.5	591.3	523.8	448.4
35°	433.1	472.1	514.6	558.0	603.6	618.0	623.7	592.6	530.8	443.6	368.6
37.5°	408.5	447.5	493.1	537.4	581.6	589.5	583.8	535.2	456.7	370.4	297.2
40°	379.6	421.2	465.9	515.5	551.8	554.0	540.0	476.9	379.6	298.5	253.3
42.5°	352.8	394.9	439.6	490.0	517.7	510.2	491.4	408.5	316.9	257.3	220.9
45°	325.2	365.1	413.3	458.0	477.8	460.2	431.7	343.6	266.1	221.4	193.3
47.5°	298.5	335.8	383.5	426.5	430.0	410.3	376.5	288.0	230.6	194.6	171.8
50°	272.2	309.5	354.2	389.7	386.2	359.0	320.8	250.3	200.3	171.8	153.0
52.5°	245.9	279.6	323.0	351.1	336.2	309.9	272.2	212.1	174.9	149.9	135.4
55°	219.6	251.2	288.4	311.6	288.0	257.7	231.0	181.9	151.7	131.5	120.5
57.5°	197.7	222.7	256.9	270.9	242.4	218.7	195.5	156.5	131.5	117.0	104.3
60°	173.6	196.4	224.4	232.7	203.4	184.1	164.4	132.4	112.6	99.9	91.6
62.5°	153.0	171.8	193.3	193.3	167.4	153.0	138.1	110.9	94.7	84.6	80.7
65°	132.8	146.4	161.7	160.0	138.1	125.4	113.5	91.6	79.3	72.3	68.4
67.5°	113.1	123.6	133.7	127.6	111.8	100.8	89.9	74.1	65.7	60.9	55.7
70°	95.1	103.4	108.7	103.0	87.2	78.0	70.1	59.6	53.0	46.9	43.8
72.5°	79.8	83.3	85.0	78.0	64.9	59.6	53.9	46.5	40.8	37.7	36.8
75°	62.2	65.3	64.0	58.7	47.8	43.8	39.4	34.2	32.9	31.1	30.2
77.5°	48.7	48.7	46.5	41.6	34.2	31.1	29.4	26.7	25.4	25.0	24.1
80°	34.6	34.2	32.9	27.6	23.2	21.5	21.5	19.7	19.3	18.4	18.4
82.5°	22.8	22.8	21.0	16.7	15.3	14.9	14.5	13.6	13.6	13.1	13.1
85°	13.6	12.7	10.5	9.2	8.8	8.8	8.3	7.9	8.3	7.9	7.9
87.5°	6.1	4.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
90°	1.2	4.6	9.2	11.5	13.8	15.6	17.3	23.0	31.1	38.0	39.1
92.5°	17.3	24.2	33.4	39.1	48.3	54.6	61.0	92.1	135.8	175.0	177.3
95°	40.3	44.9	56.4	66.8	85.2	99.0	112.8	165.7	265.9	399.4	451.2
97.5°	59.9	66.8	79.4	94.4	115.1	130.6	146.2	214.1	353.4	568.6	735.5
100°	88.6	92.1	102.4	120.9	143.9	160.0	176.1	237.1	377.5	626.2	909.3
102.5°	115.1	117.4	127.8	146.2	170.3	186.4	202.6	257.8	378.7	604.3	915.1
105°	140.4	145.0	153.1	170.3	195.7	211.8	227.9	282.0	384.4	574.4	852.9
107.5°	168.0	171.5	179.6	195.7	221.0	237.1	253.2	306.2	397.1	558.2	795.3
110°	195.7	200.3	207.2	222.1	246.3	263.0	279.7	330.3	413.2	553.6	756.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	221.0	225.6	233.7	247.5	270.5	287.8	305.0	353.4	430.5	554.8	730.9
115°	247.5	253.2	260.1	273.9	297.0	312.5	328.0	377.5	447.7	559.4	713.6
117.5°	275.1	279.7	286.6	299.3	321.1	337.2	353.4	399.4	466.2	566.3	704.4
120°	300.4	305.0	311.9	322.3	345.3	361.4	377.5	422.4	484.6	573.2	696.4
122.5°	324.6	328.0	334.9	346.5	369.5	386.2	402.9	444.3	500.7	581.3	691.8
125°	345.3	348.8	355.7	369.5	392.5	408.6	424.7	466.2	518.0	589.3	686.0
127.5°	362.6	367.2	376.4	391.3	413.2	429.9	446.6	486.9	534.1	597.4	682.6
130°	377.5	382.1	393.6	409.8	432.8	448.9	465.0	505.3	549.0	606.6	680.2
132.5°	391.3	397.1	409.8	427.0	451.2	467.3	483.4	521.4	564.0	615.8	679.1
135°	405.2	409.8	423.6	440.8	467.3	483.4	499.5	536.4	576.7	622.7	677.9
137.5°	417.8	423.6	437.4	455.8	482.3	497.2	512.2	549.0	587.0	629.6	677.9
140°	432.8	437.4	451.2	469.6	494.9	509.9	524.9	559.4	595.1	634.2	676.8
142.5°	447.7	451.2	463.9	482.3	506.4	520.2	534.1	567.4	602.0	637.7	676.8
145°	462.7	467.3	478.8	496.1	519.1	531.8	544.4	575.5	607.7	640.0	674.5
147.5°	478.8	482.3	493.8	509.9	529.5	541.0	552.5	582.4	611.2	641.1	671.0
150°	494.9	498.4	507.6	522.6	539.8	550.2	560.5	587.0	613.5	640.0	667.6
152.5°	511.0	512.2	521.4	534.1	550.2	559.4	568.6	591.6	614.6	637.7	661.8
155°	526.0	527.2	534.1	546.7	559.4	568.0	576.7	596.2	615.8	635.4	654.9
157.5°	538.7	539.8	545.6	557.1	567.4	574.9	582.4	599.7	615.8	630.8	648.0
160°	551.3	552.5	557.1	566.3	575.5	581.8	588.2	602.0	615.8	627.3	641.1
162.5°	564.0	562.8	567.4	574.4	582.4	587.0	591.6	603.1	614.6	623.8	635.4
165°	573.2	572.1	574.4	581.3	587.0	590.4	593.9	604.3	612.3	619.2	627.3
167.5°	581.3	580.1	582.4	587.0	591.6	593.9	596.2	604.3	611.2	614.6	620.4
170°	589.3	587.0	588.2	591.6	593.9	595.6	597.4	603.1	608.9	611.2	614.6
172.5°	593.9	592.8	591.6	595.1	596.2	597.4	598.5	602.0	605.4	606.6	607.7
175°	597.4	596.2	595.1	597.4	597.4	598.0	598.5	600.8	603.1	602.0	603.1
177.5°	599.7	597.4	596.2	598.5	598.5	598.5	598.5	599.7	602.0	599.7	598.5
180°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	653.1	654.0	655.3	661.4	662.3	664.1	663.2	663.2	663.6	662.7	663.2
5°	681.1	682.5	689.0	696.5	698.2	696.5	698.7	701.7	701.7	701.7	700.9
7.5°	707.4	712.3	719.7	730.7	732.9	735.1	739.0	736.4	737.3	741.2	739.9
10°	732.9	739.9	748.2	757.4	762.2	765.3	767.1	771.0	780.2	769.7	773.6
12.5°	757.0	767.1	775.8	785.9	789.4	793.4	794.7	798.2	798.2	797.7	800.8
15°	772.8	782.0	789.9	796.4	797.3	796.4	795.5	796.0	797.3	792.0	795.1
17.5°	776.3	777.1	779.8	777.1	777.6	768.4	763.1	761.8	749.5	750.0	760.0
20°	759.2	744.3	740.3	725.9	717.1	693.4	692.5	686.0	660.1	668.0	666.2
22.5°	712.3	686.8	653.1	636.4	628.1	603.1	583.8	570.3	561.0	551.8	547.9
25°	650.5	609.3	561.5	528.6	523.8	500.6	465.1	448.4	428.7	422.5	433.1
27.5°	570.7	517.2	463.3	412.9	403.7	382.7	364.7	352.8	330.1	328.7	329.6
30°	462.4	408.5	363.4	330.5	307.7	298.1	286.2	277.5	268.3	271.8	272.6
32.5°	380.0	328.7	286.7	269.1	258.6	252.5	242.4	236.7	232.7	231.4	231.0
35°	302.0	267.8	249.0	231.9	225.7	221.4	213.9	211.3	207.8	208.2	208.2
37.5°	258.6	230.1	216.1	207.3	201.6	199.4	194.6	192.0	189.8	188.9	190.2
40°	223.1	203.4	194.6	186.7	181.9	181.0	178.4	175.3	172.7	173.1	174.5
42.5°	197.2	185.8	175.3	169.2	165.7	164.4	162.2	160.0	160.0	158.7	158.2
45°	176.6	167.4	158.7	153.0	150.8	149.0	146.4	146.0	144.2	144.6	145.1
47.5°	158.2	150.8	144.2	138.5	136.3	135.9	133.2	131.5	131.5	131.1	130.6
50°	141.6	134.1	128.4	125.4	122.3	121.4	121.0	120.5	119.7	119.7	120.1
52.5°	128.0	120.5	116.2	113.5	111.8	110.9	110.9	110.5	110.5	110.5	110.0
55°	113.1	106.9	103.4	102.6	101.7	101.3	100.8	99.9	99.5	100.4	99.5
57.5°	99.1	96.9	93.8	92.9	90.7	90.7	89.4	88.5	87.7	88.5	88.5
60°	88.1	85.0	83.3	80.7	78.9	77.1	75.0	74.5	73.6	73.2	72.8
62.5°	76.7	74.1	69.7	65.7	63.1	61.4	60.5	60.0	60.0	59.6	59.6
65°	64.0	57.9	55.7	54.4	53.9	53.5	52.6	52.2	52.6	52.2	52.6
67.5°	50.0	49.1	47.8	46.9	46.5	46.0	46.0	45.6	45.6	45.6	45.6
70°	43.4	41.2	40.8	39.9	39.9	39.4	39.4	39.4	39.4	39.0	39.9
72.5°	35.9	34.6	34.2	33.8	33.8	33.8	33.3	33.3	33.3	32.9	33.3
75°	29.4	28.9	28.1	28.1	27.6	28.1	27.6	27.6	27.2	27.6	27.6
77.5°	23.7	23.2	22.8	22.8	22.4	22.4	22.4	22.4	22.4	22.4	22.8
80°	18.0	17.5	17.1	17.5	17.1	17.5	17.1	17.1	17.5	17.1	17.1
82.5°	13.1	12.7	12.7	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
85°	7.9	7.5	7.5	7.9	7.5	7.9	7.5	7.5	7.5	7.9	7.9
87.5°	3.5	3.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.9
90°	38.0	36.8	34.5	36.8	37.4	38.0	38.0	38.0	38.0	38.0	38.0
92.5°	148.5	116.3	99.0	86.3	81.7	77.1	76.0	71.4	72.5	70.2	72.5
95°	394.8	301.6	231.4	183.0	170.4	157.7	142.7	133.5	130.1	131.2	130.1
97.5°	741.3	616.9	492.6	376.4	341.8	307.3	262.4	239.4	226.7	219.8	226.7
100°	1075.0	1050.9	908.1	750.5	680.8	611.2	515.7	466.2	432.8	412.1	432.8
102.5°	1199.4	1335.2	1330.6	1225.8	1151.0	1076.2	970.3	877.1	833.3	803.4	833.3
105°	1159.1	1398.5	1528.5	1543.5	1524.5	1505.5	1434.2	1362.8	1313.3	1297.2	1313.3
107.5°	1073.9	1330.6	1523.9	1636.7	1659.8	1682.8	1681.6	1671.3	1656.3	1629.8	1656.3
110°	994.5	1237.3	1443.4	1590.7	1637.9	1685.1	1734.6	1756.4	1766.8	1765.7	1766.8

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	939.2	1152.2	1347.8	1507.8	1563.6	1619.5	1693.1	1733.4	1755.3	1763.4	1755.3
115°	895.5	1085.4	1262.7	1413.4	1472.7	1532.0	1613.7	1666.7	1696.6	1707.0	1696.6
117.5°	865.6	1030.2	1189.0	1329.4	1385.8	1442.2	1526.2	1582.6	1613.7	1621.8	1613.7
120°	842.5	991.0	1133.7	1255.8	1308.2	1360.5	1441.1	1495.2	1528.5	1540.1	1528.5
122.5°	823.0	959.9	1087.7	1201.7	1247.7	1293.7	1363.9	1416.9	1445.7	1454.9	1445.7
125°	804.6	930.0	1048.6	1149.9	1193.1	1236.2	1302.9	1346.7	1375.5	1384.7	1375.5
127.5°	787.3	900.1	1009.4	1106.1	1146.4	1186.7	1245.4	1286.8	1312.2	1319.1	1312.2
130°	770.0	871.3	970.3	1061.2	1099.2	1137.2	1193.6	1232.7	1255.8	1265.0	1255.8
132.5°	756.2	843.7	933.5	1015.2	1050.3	1085.4	1140.7	1179.8	1200.5	1208.6	1200.5
135°	743.6	818.4	894.3	970.3	1002.6	1034.8	1084.3	1122.2	1143.0	1147.6	1143.0
137.5°	734.3	797.7	863.3	925.4	954.2	983.0	1030.2	1063.5	1082.0	1088.9	1082.0
140°	726.3	778.1	833.3	886.3	911.6	936.9	973.8	1003.7	1020.9	1027.9	1020.9
142.5°	718.2	762.0	806.9	850.6	870.8	890.9	925.4	951.9	966.9	966.9	966.9
145°	711.3	747.0	785.0	820.7	837.4	854.1	881.7	901.2	912.8	916.2	912.8
147.5°	704.4	735.5	766.6	795.3	808.0	820.7	844.8	861.0	869.0	871.3	869.0
150°	695.2	722.8	748.2	772.3	782.6	793.0	810.3	824.1	831.0	832.2	831.0
152.5°	687.2	710.2	733.2	752.8	761.4	770.0	782.7	794.2	798.8	798.8	798.8
155°	676.8	698.7	717.1	734.3	740.6	747.0	759.7	767.7	772.3	770.0	772.3
157.5°	667.6	684.9	701.0	715.9	721.1	726.3	735.5	742.4	744.7	744.7	744.7
160°	657.2	672.2	684.9	697.5	701.6	705.6	713.6	719.4	720.5	720.5	720.5
162.5°	648.0	659.5	669.9	680.2	683.1	686.0	694.1	697.5	698.7	697.5	698.7
165°	637.7	646.9	654.9	663.0	665.3	667.6	672.2	676.8	676.8	675.6	676.8
167.5°	627.3	634.2	641.1	646.9	649.2	651.5	653.8	656.1	656.1	654.9	656.1
170°	619.2	625.0	628.5	633.1	634.2	635.4	636.5	640.0	638.8	636.5	638.8
172.5°	611.2	614.6	616.9	620.4	621.0	621.5	622.7	623.8	622.7	621.5	622.7
175°	604.3	607.7	608.9	610.0	610.6	611.2	611.2	612.3	611.2	608.9	611.2
177.5°	599.7	602.0	602.0	603.1	603.1	603.1	603.1	603.1	602.0	599.7	602.0
180°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	664.9	661.9	661.0	661.9	661.0	661.4	658.4	647.0	650.0	645.2	647.8
5°	702.6	700.0	694.3	693.4	692.5	691.7	687.3	677.2	673.3	666.7	666.2
7.5°	738.6	738.6	734.2	731.1	727.2	724.1	718.4	703.5	697.4	689.5	685.1
10°	774.1	762.7	767.5	764.4	754.8	753.0	742.5	733.7	721.9	714.0	707.0
12.5°	799.5	796.0	791.6	789.0	786.3	780.6	773.6	751.3	745.1	729.4	721.5
15°	798.6	796.4	797.7	797.7	796.9	795.5	789.9	773.6	763.1	747.8	734.2
17.5°	755.7	761.4	767.1	771.0	779.8	783.7	789.0	779.3	772.8	759.6	745.1
20°	680.7	694.7	711.4	714.9	722.8	746.0	756.5	764.9	767.5	763.1	751.3
22.5°	576.4	588.2	628.6	627.7	639.1	666.7	697.4	722.4	742.1	753.0	748.6
25°	451.5	468.1	489.6	505.8	543.1	584.3	622.4	662.3	696.5	726.7	734.2
27.5°	341.5	363.4	380.5	401.9	420.8	469.4	518.5	580.8	620.7	678.1	707.9
30°	276.1	286.2	303.3	313.4	322.6	359.9	415.5	476.9	547.0	613.2	664.5
32.5°	235.8	242.8	255.5	259.9	269.6	294.6	329.6	385.7	458.0	538.3	605.8
35°	211.7	219.2	221.8	225.7	233.6	249.4	273.5	314.3	379.6	458.0	538.7
37.5°	191.1	195.1	202.5	205.1	207.8	219.6	235.8	264.3	307.7	372.1	461.6
40°	176.6	178.8	182.8	185.0	186.7	195.1	209.5	228.8	260.8	309.9	392.3
42.5°	161.3	163.9	166.6	169.2	171.4	178.0	186.7	205.1	226.6	263.9	323.5
45°	146.4	148.2	151.2	153.0	156.0	161.3	169.2	181.9	201.2	224.9	273.1
47.5°	132.8	135.0	136.3	138.5	140.7	146.4	153.9	162.2	178.0	201.2	236.3
50°	120.5	123.2	124.9	125.4	127.1	132.4	138.5	147.7	157.8	175.8	206.4
52.5°	111.8	112.2	113.5	115.3	114.8	117.9	123.6	130.6	141.1	155.6	178.0
55°	101.7	103.0	103.9	104.3	104.3	106.9	110.0	116.6	124.9	136.8	155.6
57.5°	89.0	90.3	92.9	93.8	95.1	96.4	97.7	102.1	109.1	120.5	135.9
60°	75.8	76.7	79.3	81.1	82.0	85.5	87.2	90.7	94.7	103.0	117.5
62.5°	60.9	61.8	63.1	64.9	66.6	71.9	76.3	79.8	82.8	88.5	100.4
65°	53.0	53.5	54.4	54.8	55.2	57.4	61.4	66.2	71.9	76.3	83.3
67.5°	46.0	46.5	46.9	47.8	48.2	48.7	50.4	51.7	57.4	63.6	68.8
70°	39.4	40.3	40.8	40.8	41.2	42.1	43.0	44.7	46.5	49.5	56.1
72.5°	33.3	33.8	34.6	34.6	34.6	35.5	36.4	37.3	38.1	39.9	42.5
75°	27.6	28.5	28.5	28.5	28.9	28.9	29.8	30.7	31.6	32.9	33.8
77.5°	22.8	22.8	22.8	22.8	23.2	23.2	23.7	24.5	25.0	25.4	26.3
80°	17.1	17.5	17.5	17.5	18.0	18.0	18.0	18.8	19.3	19.3	20.2
82.5°	12.7	12.7	12.7	13.1	12.7	13.1	13.1	13.6	13.1	13.6	14.0
85°	7.9	7.9	7.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.8
87.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	4.4	3.9	3.9
90°	38.0	38.0	38.0	37.4	36.8	34.5	36.8	38.0	39.1	38.0	31.1
92.5°	71.4	76.0	77.1	81.7	86.3	99.0	116.3	148.5	177.3	175.0	135.8
95°	133.5	142.7	157.7	170.4	183.0	231.4	301.6	394.8	451.2	399.4	265.9
97.5°	239.4	262.4	307.3	341.8	376.4	492.6	616.9	741.3	735.5	568.6	353.4
100°	466.2	515.7	611.2	680.8	750.5	908.1	1050.9	1075.0	909.3	626.2	377.5
102.5°	877.1	970.3	1076.2	1151.0	1225.8	1330.6	1335.2	1199.4	915.1	604.3	378.7
105°	1362.8	1434.2	1505.5	1524.5	1543.5	1528.5	1398.5	1159.1	852.9	574.4	384.4
107.5°	1671.3	1681.6	1682.8	1659.8	1636.7	1523.9	1330.6	1073.9	795.3	558.2	397.1
110°	1756.4	1734.6	1685.1	1637.9	1590.7	1443.4	1237.3	994.5	756.2	553.6	413.2



TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1733.4	1693.1	1619.5	1563.6	1507.8	1347.8	1152.2	939.2	730.9	554.8	430.5
115°	1666.7	1613.7	1532.0	1472.7	1413.4	1262.7	1085.4	895.5	713.6	559.4	447.7
117.5°	1582.6	1526.2	1442.2	1385.8	1329.4	1189.0	1030.2	865.6	704.4	566.3	466.2
120°	1495.2	1441.1	1360.5	1308.2	1255.8	1133.7	991.0	842.5	696.4	573.2	484.6
122.5°	1416.9	1363.9	1293.7	1247.7	1201.7	1087.7	959.9	823.0	691.8	581.3	500.7
125°	1346.7	1302.9	1236.2	1193.1	1149.9	1048.6	930.0	804.6	686.0	589.3	518.0
127.5°	1286.8	1245.4	1186.7	1146.4	1106.1	1009.4	900.1	787.3	682.6	597.4	534.1
130°	1232.7	1193.6	1137.2	1099.2	1061.2	970.3	871.3	770.0	680.2	606.6	549.0
132.5°	1179.8	1140.7	1085.4	1050.3	1015.2	933.5	843.7	756.2	679.1	615.8	564.0
135°	1122.2	1084.3	1034.8	1002.6	970.3	894.3	818.4	743.6	677.9	622.7	576.7
137.5°	1063.5	1030.2	983.0	954.2	925.4	863.3	797.7	734.3	677.9	629.6	587.0
140°	1003.7	973.8	936.9	911.6	886.3	833.3	778.1	726.3	676.8	634.2	595.1
142.5°	951.9	925.4	890.9	870.8	850.6	806.9	762.0	718.2	676.8	637.7	602.0
145°	901.2	881.7	854.1	837.4	820.7	785.0	747.0	711.3	674.5	640.0	607.7
147.5°	861.0	844.8	820.7	808.0	795.3	766.6	735.5	704.4	671.0	641.1	611.2
150°	824.1	810.3	793.0	782.6	772.3	748.2	722.8	695.2	667.6	640.0	613.5
152.5°	794.2	782.7	770.0	761.4	752.8	733.2	710.2	687.2	661.8	637.7	614.6
155°	767.7	759.7	747.0	740.6	734.3	717.1	698.7	676.8	654.9	635.4	615.8
157.5°	742.4	735.5	726.3	721.1	715.9	701.0	684.9	667.6	648.0	630.8	615.8
160°	719.4	713.6	705.6	701.6	697.5	684.9	672.2	657.2	641.1	627.3	615.8
162.5°	697.5	694.1	686.0	683.1	680.2	669.9	659.5	648.0	635.4	623.8	614.6
165°	676.8	672.2	667.6	665.3	663.0	654.9	646.9	637.7	627.3	619.2	612.3
167.5°	656.1	653.8	651.5	649.2	646.9	641.1	634.2	627.3	620.4	614.6	611.2
170°	640.0	636.5	635.4	634.2	633.1	628.5	625.0	619.2	614.6	611.2	608.9
172.5°	623.8	622.7	621.5	621.0	620.4	616.9	614.6	611.2	607.7	606.6	605.4
175°	612.3	611.2	611.2	610.6	610.0	608.9	607.7	604.3	603.1	602.0	603.1
177.5°	603.1	603.1	603.1	603.1	603.1	602.0	602.0	599.7	598.5	599.7	602.0
180°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	643.9	641.7	641.7	640.4	640.4	633.4	633.4	635.6	632.9	629.9	625.5
5°	660.5	655.7	654.4	652.7	647.0	638.2	634.7	633.4	628.1	621.5	614.1
7.5°	676.3	668.4	664.5	660.5	653.1	640.8	633.8	629.0	621.1	611.0	601.4
10°	691.7	681.6	671.5	666.7	656.2	640.8	630.7	622.9	611.5	597.9	584.3
12.5°	705.7	684.7	682.9	673.3	657.9	640.4	625.0	613.6	599.2	583.4	567.6
15°	718.0	696.5	686.0	677.2	657.0	635.1	618.9	604.9	585.6	567.6	548.3
17.5°	724.1	700.9	693.9	679.4	658.8	630.3	608.4	591.3	570.3	548.8	526.9
20°	730.2	703.1	691.7	681.6	653.5	621.1	596.6	576.8	553.6	528.2	504.1
22.5°	733.3	703.1	689.5	675.5	648.3	611.0	582.1	558.9	531.7	505.8	476.9
25°	728.0	700.4	684.2	669.8	639.1	598.7	565.4	539.1	510.2	480.8	451.5
27.5°	714.9	694.3	675.5	660.5	626.4	583.0	547.9	518.1	488.3	455.4	425.6
30°	690.4	681.1	666.2	649.6	612.3	568.9	527.3	496.6	463.7	430.9	399.7
32.5°	652.2	660.1	650.5	636.0	595.7	549.7	505.4	474.3	438.3	402.8	374.3
35°	605.8	633.8	628.6	618.5	578.1	529.1	484.8	447.1	411.1	375.2	346.7
37.5°	554.9	597.4	601.8	595.7	558.0	508.0	459.4	422.5	385.7	349.3	320.4
40°	485.2	550.5	564.6	567.2	536.9	482.6	431.7	395.8	359.4	323.9	288.9
42.5°	421.2	503.6	521.2	532.1	510.2	457.6	406.3	366.4	330.5	298.5	263.4
45°	361.2	447.1	475.6	489.6	480.0	429.1	376.1	338.8	305.9	276.6	242.8
47.5°	299.4	385.7	425.6	448.0	448.0	400.2	347.1	310.3	278.8	253.8	224.0
50°	258.2	330.1	371.3	400.6	408.5	370.8	320.8	284.9	255.1	227.9	205.1
52.5°	220.0	284.5	318.7	349.3	372.1	339.3	291.5	259.0	229.7	204.3	186.3
55°	190.2	238.4	269.6	303.3	328.7	307.3	263.0	231.4	206.0	185.0	169.6
57.5°	161.7	203.8	229.2	259.0	286.2	270.0	234.5	207.3	185.0	166.6	153.0
60°	137.6	171.8	191.5	214.8	248.5	237.1	207.8	182.8	164.8	148.2	136.8
62.5°	117.0	144.2	160.9	177.5	208.2	202.9	180.1	160.9	145.5	131.5	121.9
65°	96.0	118.3	131.5	146.0	170.5	172.7	154.3	140.7	126.7	114.4	105.6
67.5°	77.6	95.1	106.9	119.2	138.9	145.1	132.4	121.0	109.1	99.1	91.2
70°	62.7	75.0	83.7	93.4	109.6	117.0	110.5	102.6	92.9	84.6	77.6
72.5°	49.5	57.4	62.7	70.1	83.3	90.7	90.3	83.3	76.3	70.6	64.9
75°	36.4	42.5	46.9	51.7	62.2	69.3	71.0	67.9	60.9	56.5	52.2
77.5°	27.6	31.1	33.3	36.8	44.3	50.4	53.0	52.2	47.3	43.8	40.8
80°	21.0	21.9	22.8	24.1	30.2	35.9	37.7	37.3	34.6	33.3	29.8
82.5°	14.9	15.3	15.8	16.2	18.4	23.2	25.0	25.9	23.7	22.4	19.3
85°	8.8	9.2	9.2	10.1	10.5	11.8	14.9	14.9	14.5	12.7	12.3
87.5°	4.4	4.4	3.9	3.9	4.4	4.8	5.7	6.6	5.7	5.3	4.8
90°	23.0	17.3	15.6	13.8	11.5	9.2	4.6	1.2	4.6	9.2	11.5
92.5°	92.1	61.0	54.6	48.3	39.1	33.4	24.2	17.3	24.2	33.4	39.1
95°	165.7	112.8	99.0	85.2	66.8	56.4	44.9	40.3	44.9	56.4	66.8
97.5°	214.1	146.2	130.6	115.1	94.4	79.4	66.8	59.9	66.8	79.4	94.4
100°	237.1	176.1	160.0	143.9	120.9	102.4	92.1	88.6	92.1	102.4	120.9
102.5°	257.8	202.6	186.4	170.3	146.2	127.8	117.4	115.1	117.4	127.8	146.2
105°	282.0	227.9	211.8	195.7	170.3	153.1	145.0	140.4	145.0	153.1	170.3
107.5°	306.2	253.2	237.1	221.0	195.7	179.6	171.5	168.0	171.5	179.6	195.7
110°	330.3	279.7	263.0	246.3	222.1	207.2	200.3	195.7	200.3	207.2	222.1

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	353.4	305.0	287.8	270.5	247.5	233.7	225.6	221.0	225.6	233.7	247.5
115°	377.5	328.0	312.5	297.0	273.9	260.1	253.2	247.5	253.2	260.1	273.9
117.5°	399.4	353.4	337.2	321.1	299.3	286.6	279.7	275.1	279.7	286.6	299.3
120°	422.4	377.5	361.4	345.3	322.3	311.9	305.0	300.4	305.0	311.9	322.3
122.5°	444.3	402.9	386.2	369.5	346.5	334.9	328.0	324.6	328.0	334.9	346.5
125°	466.2	424.7	408.6	392.5	369.5	355.7	348.8	345.3	348.8	355.7	369.5
127.5°	486.9	446.6	429.9	413.2	391.3	376.4	367.2	362.6	367.2	376.4	391.3
130°	505.3	465.0	448.9	432.8	409.8	393.6	382.1	377.5	382.1	393.6	409.8
132.5°	521.4	483.4	467.3	451.2	427.0	409.8	397.1	391.3	397.1	409.8	427.0
135°	536.4	499.5	483.4	467.3	440.8	423.6	409.8	405.2	409.8	423.6	440.8
137.5°	549.0	512.2	497.2	482.3	455.8	437.4	423.6	417.8	423.6	437.4	455.8
140°	559.4	524.9	509.9	494.9	469.6	451.2	437.4	432.8	437.4	451.2	469.6
142.5°	567.4	534.1	520.2	506.4	482.3	463.9	451.2	447.7	451.2	463.9	482.3
145°	575.5	544.4	531.8	519.1	496.1	478.8	467.3	462.7	467.3	478.8	496.1
147.5°	582.4	552.5	541.0	529.5	509.9	493.8	482.3	478.8	482.3	493.8	509.9
150°	587.0	560.5	550.2	539.8	522.6	507.6	498.4	494.9	498.4	507.6	522.6
152.5°	591.6	568.6	559.4	550.2	534.1	521.4	512.2	511.0	512.2	521.4	534.1
155°	596.2	576.7	568.0	559.4	546.7	534.1	527.2	526.0	527.2	534.1	546.7
157.5°	599.7	582.4	574.9	567.4	557.1	545.6	539.8	538.7	539.8	545.6	557.1
160°	602.0	588.2	581.8	575.5	566.3	557.1	552.5	551.3	552.5	557.1	566.3
162.5°	603.1	591.6	587.0	582.4	574.4	567.4	562.8	564.0	562.8	567.4	574.4
165°	604.3	593.9	590.4	587.0	581.3	574.4	572.1	573.2	572.1	574.4	581.3
167.5°	604.3	596.2	593.9	591.6	587.0	582.4	580.1	581.3	580.1	582.4	587.0
170°	603.1	597.4	595.6	593.9	591.6	588.2	587.0	589.3	587.0	588.2	591.6
172.5°	602.0	598.5	597.4	596.2	595.1	591.6	592.8	593.9	592.8	591.6	595.1
175°	600.8	598.5	598.0	597.4	597.4	595.1	596.2	597.4	596.2	595.1	597.4
177.5°	599.7	598.5	598.5	598.5	598.5	596.2	597.4	599.7	597.4	596.2	598.5
180°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	623.7	624.2	625.5	621.5	615.4	612.8	604.9	603.6	602.3	602.3	603.6
5°	609.7	607.9	608.4	600.9	592.2	586.9	576.0	577.7	572.0	568.5	569.4
7.5°	594.4	589.5	589.1	579.5	568.5	558.9	547.5	544.8	539.6	533.4	530.8
10°	575.1	571.6	565.0	554.0	540.0	532.1	516.8	507.6	506.3	497.1	493.5
12.5°	555.4	549.2	542.6	527.3	511.5	498.8	487.4	477.3	470.3	462.4	457.2
15°	532.6	525.1	517.7	501.4	483.0	470.3	453.2	438.3	417.7	401.5	392.3
17.5°	507.6	499.2	489.2	471.2	453.2	435.7	404.1	386.6	372.1	362.5	356.8
20°	481.7	472.5	462.4	444.5	413.3	382.7	365.1	351.5	342.8	333.1	326.1
22.5°	454.5	444.9	433.9	405.9	373.0	351.5	337.9	325.2	312.5	307.3	303.8
25°	429.1	420.3	406.3	368.2	342.3	322.6	307.3	298.9	292.4	285.3	278.8
27.5°	402.8	386.6	366.9	334.9	318.7	298.5	287.5	281.4	270.0	265.2	262.1
30°	371.3	353.3	334.4	311.6	292.8	278.8	268.7	258.6	252.0	247.2	242.0
32.5°	339.3	322.2	310.3	286.7	272.6	258.2	248.5	242.4	232.7	229.7	227.5
35°	311.6	297.2	286.7	267.4	254.2	241.1	234.1	224.9	218.7	213.0	209.5
37.5°	284.5	276.6	265.6	249.4	235.4	224.9	215.2	212.1	203.8	200.8	197.2
40°	265.6	253.8	244.6	230.6	218.7	207.3	201.2	194.2	188.5	183.7	182.3
42.5°	242.8	234.1	228.8	213.5	201.2	194.6	187.2	179.3	174.9	170.9	166.1
45°	225.7	217.8	210.4	198.1	187.2	178.8	172.3	167.0	159.5	157.8	150.3
47.5°	207.8	199.9	194.2	181.9	171.8	163.9	159.1	152.1	146.0	142.0	138.5
50°	189.8	183.2	178.0	167.4	158.7	150.3	143.8	136.8	134.1	127.6	125.4
52.5°	172.7	168.3	162.6	152.5	143.8	136.8	129.7	124.0	120.1	116.6	114.0
55°	158.2	151.2	148.6	137.6	130.2	122.7	116.6	113.1	108.3	106.1	103.9
57.5°	142.0	138.1	133.7	125.4	117.0	110.0	105.6	100.4	97.7	95.1	93.4
60°	128.0	122.3	118.8	111.8	104.3	97.7	93.8	89.9	86.3	84.2	80.7
62.5°	111.8	107.4	105.2	97.7	91.6	85.5	82.0	78.0	75.4	71.4	67.1
65°	97.7	94.2	91.6	85.5	79.8	74.1	70.6	65.7	62.2	60.0	59.6
67.5°	85.5	82.8	78.9	73.2	67.5	63.1	59.2	55.2	54.8	53.9	53.9
70°	71.9	69.3	67.1	60.9	56.1	51.3	50.4	49.1	47.8	47.3	46.5
72.5°	60.0	57.9	55.2	50.0	45.1	43.8	43.0	42.1	40.8	40.3	39.9
75°	48.7	45.6	43.8	39.0	37.7	36.8	35.9	34.6	33.8	33.3	32.4
77.5°	37.3	34.2	34.2	31.6	30.7	29.4	28.5	27.6	27.2	26.3	26.3
80°	26.3	26.3	25.4	24.1	22.8	22.4	21.0	20.6	20.2	20.6	19.7
82.5°	19.3	17.5	17.5	16.7	15.8	15.3	14.5	14.5	14.0	14.0	14.0
85°	11.0	11.0	10.5	9.6	9.2	9.2	8.8	8.8	8.3	8.3	7.9
87.5°	4.4	3.9	4.4	3.9	3.9	3.5	3.5	3.5	3.1	3.5	3.1
90°	13.8	15.6	17.3	23.0	31.1	38.0	39.1	38.0	36.8	34.5	36.8
92.5°	48.3	54.6	61.0	92.1	135.8	175.0	177.3	148.5	116.3	99.0	86.3
95°	85.2	99.0	112.8	165.7	265.9	399.4	451.2	394.8	301.6	231.4	183.0
97.5°	115.1	130.6	146.2	214.1	353.4	568.6	735.5	741.3	616.9	492.6	376.4
100°	143.9	160.0	176.1	237.1	377.5	626.2	909.3	1075.0	1050.9	908.1	750.5
102.5°	170.3	186.4	202.6	257.8	378.7	604.3	915.1	1199.4	1335.2	1330.6	1225.8
105°	195.7	211.8	227.9	282.0	384.4	574.4	852.9	1159.1	1398.5	1528.5	1543.5
107.5°	221.0	237.1	253.2	306.2	397.1	558.2	795.3	1073.9	1330.6	1523.9	1636.7
110°	246.3	263.0	279.7	330.3	413.2	553.6	756.2	994.5	1237.3	1443.4	1590.7

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	270.5	287.8	305.0	353.4	430.5	554.8	730.9	939.2	1152.2	1347.8	1507.8
115°	297.0	312.5	328.0	377.5	447.7	559.4	713.6	895.5	1085.4	1262.7	1413.4
117.5°	321.1	337.2	353.4	399.4	466.2	566.3	704.4	865.6	1030.2	1189.0	1329.4
120°	345.3	361.4	377.5	422.4	484.6	573.2	696.4	842.5	991.0	1133.7	1255.8
122.5°	369.5	386.2	402.9	444.3	500.7	581.3	691.8	823.0	959.9	1087.7	1201.7
125°	392.5	408.6	424.7	466.2	518.0	589.3	686.0	804.6	930.0	1048.6	1149.9
127.5°	413.2	429.9	446.6	486.9	534.1	597.4	682.6	787.3	900.1	1009.4	1106.1
130°	432.8	448.9	465.0	505.3	549.0	606.6	680.2	770.0	871.3	970.3	1061.2
132.5°	451.2	467.3	483.4	521.4	564.0	615.8	679.1	756.2	843.7	933.5	1015.2
135°	467.3	483.4	499.5	536.4	576.7	622.7	677.9	743.6	818.4	894.3	970.3
137.5°	482.3	497.2	512.2	549.0	587.0	629.6	677.9	734.3	797.7	863.3	925.4
140°	494.9	509.9	524.9	559.4	595.1	634.2	676.8	726.3	778.1	833.3	886.3
142.5°	506.4	520.2	534.1	567.4	602.0	637.7	676.8	718.2	762.0	806.9	850.6
145°	519.1	531.8	544.4	575.5	607.7	640.0	674.5	711.3	747.0	785.0	820.7
147.5°	529.5	541.0	552.5	582.4	611.2	641.1	671.0	704.4	735.5	766.6	795.3
150°	539.8	550.2	560.5	587.0	613.5	640.0	667.6	695.2	722.8	748.2	772.3
152.5°	550.2	559.4	568.6	591.6	614.6	637.7	661.8	687.2	710.2	733.2	752.8
155°	559.4	568.0	576.7	596.2	615.8	635.4	654.9	676.8	698.7	717.1	734.3
157.5°	567.4	574.9	582.4	599.7	615.8	630.8	648.0	667.6	684.9	701.0	715.9
160°	575.5	581.8	588.2	602.0	615.8	627.3	641.1	657.2	672.2	684.9	697.5
162.5°	582.4	587.0	591.6	603.1	614.6	623.8	635.4	648.0	659.5	669.9	680.2
165°	587.0	590.4	593.9	604.3	612.3	619.2	627.3	637.7	646.9	654.9	663.0
167.5°	591.6	593.9	596.2	604.3	611.2	614.6	620.4	627.3	634.2	641.1	646.9
170°	593.9	595.6	597.4	603.1	608.9	611.2	614.6	619.2	625.0	628.5	633.1
172.5°	596.2	597.4	598.5	602.0	605.4	606.6	607.7	611.2	614.6	616.9	620.4
175°	597.4	598.0	598.5	600.8	603.1	602.0	603.1	604.3	607.7	608.9	610.0
177.5°	598.5	598.5	598.5	599.7	602.0	599.7	598.5	599.7	602.0	602.0	603.1
180°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	603.6	602.7	600.1	600.9	599.6	599.6	598.7	598.7	598.7	600.9	599.6
5°	570.7	567.6	564.6	563.2	561.9	560.6	560.6	560.2	564.1	563.2	566.7
7.5°	529.9	529.1	522.9	522.9	520.7	519.8	522.0	522.5	522.9	523.8	526.0
10°	493.5	491.4	482.6	483.5	482.2	480.4	481.7	480.8	483.9	484.8	483.9
12.5°	450.6	446.6	437.0	432.2	426.9	423.0	427.8	424.3	436.6	440.1	449.7
15°	393.6	386.2	379.6	379.6	374.8	371.3	373.4	377.4	380.0	384.0	385.7
17.5°	355.5	352.4	347.1	344.1	342.8	341.5	341.5	343.2	348.9	348.5	352.0
20°	323.0	321.3	318.7	314.7	313.4	312.5	312.5	312.5	316.5	320.0	322.2
22.5°	300.7	299.4	297.6	292.4	289.7	288.9	291.0	292.4	295.4	298.1	300.2
25°	278.3	275.3	272.2	270.4	269.1	269.1	270.0	270.4	271.8	273.1	275.7
27.5°	259.9	257.7	253.3	248.5	248.5	247.2	248.1	249.0	252.0	256.4	258.6
30°	239.3	238.9	237.1	235.4	233.6	232.7	234.5	235.8	236.3	238.4	238.4
32.5°	224.4	221.4	218.3	216.5	215.7	215.2	215.7	217.4	217.4	220.0	223.1
35°	209.5	207.8	204.7	201.6	200.8	198.6	200.3	202.1	205.1	206.4	207.8
37.5°	193.3	191.1	189.8	188.9	187.2	187.6	186.3	188.9	191.5	191.1	192.0
40°	181.0	177.1	173.1	172.7	172.3	171.8	171.8	172.3	174.0	175.8	178.4
42.5°	165.2	163.9	160.4	156.9	156.0	155.2	154.3	156.0	159.5	162.6	163.9
45°	149.0	147.3	146.4	143.8	142.0	141.6	140.7	142.9	146.0	147.3	148.2
47.5°	134.1	133.7	131.1	131.5	130.2	130.6	130.2	131.5	131.5	132.8	133.7
50°	124.0	122.7	121.4	120.5	119.2	119.2	118.8	119.2	121.0	122.7	122.3
52.5°	114.0	111.8	111.3	110.9	110.0	110.9	109.6	110.0	111.8	112.6	112.2
55°	102.1	101.7	100.8	99.9	99.5	99.1	99.1	99.1	100.8	102.1	102.6
57.5°	92.9	90.7	89.0	89.0	87.2	86.8	87.7	88.1	89.4	90.3	91.2
60°	80.2	79.3	76.7	75.4	72.8	72.3	72.3	74.1	76.3	79.3	80.2
62.5°	66.6	65.3	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.3	65.3
65°	59.2	59.6	59.2	58.7	59.2	59.2	58.7	58.7	58.7	59.2	59.6
67.5°	53.0	52.6	53.0	52.6	52.2	52.2	51.7	52.2	52.6	53.0	53.0
70°	46.0	46.0	45.6	46.0	45.6	45.1	44.7	44.7	45.6	46.0	46.0
72.5°	39.4	39.4	39.0	39.0	38.1	38.1	38.6	38.1	38.1	39.4	39.4
75°	32.9	32.4	32.0	32.0	31.6	31.6	31.6	31.1	32.0	32.0	32.4
77.5°	25.9	25.9	25.9	25.4	25.4	25.0	25.0	25.4	25.4	25.4	25.9
80°	19.7	19.7	19.7	19.3	18.8	18.8	18.8	18.8	18.8	19.3	18.8
82.5°	13.6	13.6	13.6	13.6	13.6	13.1	13.1	13.1	13.6	13.6	13.1
85°	8.3	7.9	8.3	8.3	7.9	8.3	7.9	7.9	7.5	7.5	7.9
87.5°	3.5	3.1	2.6	2.6	3.1	2.6	2.6	2.6	3.1	2.6	2.6
90°	37.4	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	37.4
92.5°	81.7	77.1	76.0	71.4	72.5	70.2	72.5	71.4	76.0	77.1	81.7
95°	170.4	157.7	142.7	133.5	130.1	131.2	130.1	133.5	142.7	157.7	170.4
97.5°	341.8	307.3	262.4	239.4	226.7	219.8	226.7	239.4	262.4	307.3	341.8
100°	680.8	611.2	515.7	466.2	432.8	412.1	432.8	466.2	515.7	611.2	680.8
102.5°	1151.0	1076.2	970.3	877.1	833.3	803.4	833.3	877.1	970.3	1076.2	1151.0
105°	1524.5	1505.5	1434.2	1362.8	1313.3	1297.2	1313.3	1362.8	1434.2	1505.5	1524.5
107.5°	1659.8	1682.8	1681.6	1671.3	1656.3	1629.8	1656.3	1671.3	1681.6	1682.8	1659.8
110°	1637.9	1685.1	1734.6	1756.4	1766.8	1765.7	1766.8	1756.4	1734.6	1685.1	1637.9

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	1563.6	1619.5	1693.1	1733.4	1755.3	1763.4	1755.3	1733.4	1693.1	1619.5	1563.6
115°	1472.7	1532.0	1613.7	1666.7	1696.6	1707.0	1696.6	1666.7	1613.7	1532.0	1472.7
117.5°	1385.8	1442.2	1526.2	1582.6	1613.7	1621.8	1613.7	1582.6	1526.2	1442.2	1385.8
120°	1308.2	1360.5	1441.1	1495.2	1528.5	1540.1	1528.5	1495.2	1441.1	1360.5	1308.2
122.5°	1247.7	1293.7	1363.9	1416.9	1445.7	1454.9	1445.7	1416.9	1363.9	1293.7	1247.7
125°	1193.1	1236.2	1302.9	1346.7	1375.5	1384.7	1375.5	1346.7	1302.9	1236.2	1193.1
127.5°	1146.4	1186.7	1245.4	1286.8	1312.2	1319.1	1312.2	1286.8	1245.4	1186.7	1146.4
130°	1099.2	1137.2	1193.6	1232.7	1255.8	1265.0	1255.8	1232.7	1193.6	1137.2	1099.2
132.5°	1050.3	1085.4	1140.7	1179.8	1200.5	1208.6	1200.5	1179.8	1140.7	1085.4	1050.3
135°	1002.6	1034.8	1084.3	1122.2	1143.0	1147.6	1143.0	1122.2	1084.3	1034.8	1002.6
137.5°	954.2	983.0	1030.2	1063.5	1082.0	1088.9	1082.0	1063.5	1030.2	983.0	954.2
140°	911.6	936.9	973.8	1003.7	1020.9	1027.9	1020.9	1003.7	973.8	936.9	911.6
142.5°	870.8	890.9	925.4	951.9	966.9	966.9	966.9	951.9	925.4	890.9	870.8
145°	837.4	854.1	881.7	901.2	912.8	916.2	912.8	901.2	881.7	854.1	837.4
147.5°	808.0	820.7	844.8	861.0	869.0	871.3	869.0	861.0	844.8	820.7	808.0
150°	782.6	793.0	810.3	824.1	831.0	832.2	831.0	824.1	810.3	793.0	782.6
152.5°	761.4	770.0	782.7	794.2	798.8	798.8	798.8	794.2	782.7	770.0	761.4
155°	740.6	747.0	759.7	767.7	772.3	770.0	772.3	767.7	759.7	747.0	740.6
157.5°	721.1	726.3	735.5	742.4	744.7	744.7	744.7	742.4	735.5	726.3	721.1
160°	701.6	705.6	713.6	719.4	720.5	720.5	720.5	719.4	713.6	705.6	701.6
162.5°	683.1	686.0	694.1	697.5	698.7	697.5	698.7	697.5	694.1	686.0	683.1
165°	665.3	667.6	672.2	676.8	676.8	675.6	676.8	676.8	672.2	667.6	665.3
167.5°	649.2	651.5	653.8	656.1	656.1	654.9	656.1	656.1	653.8	651.5	649.2
170°	634.2	635.4	636.5	640.0	638.8	636.5	638.8	640.0	636.5	635.4	634.2
172.5°	621.0	621.5	622.7	623.8	622.7	621.5	622.7	623.8	622.7	621.5	621.0
175°	610.6	611.2	611.2	612.3	611.2	608.9	611.2	612.3	611.2	611.2	610.6
177.5°	603.1	603.1	603.1	603.1	602.0	599.7	602.0	603.1	603.1	603.1	603.1
180°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7	630.7
2.5°	600.9	603.1	602.3	597.4	602.3	603.6	606.2	608.8	610.6	613.2	615.4
5°	563.2	567.6	570.3	567.6	576.4	577.7	583.8	587.3	592.6	597.0	600.5
7.5°	527.7	531.2	536.5	537.4	542.6	548.8	557.5	566.3	574.6	579.0	583.0
10°	489.6	495.7	503.6	501.9	509.8	519.4	528.6	542.6	549.7	557.5	564.6
12.5°	451.5	455.4	465.9	469.4	480.8	488.3	501.0	509.8	527.3	536.5	542.6
15°	384.8	401.1	414.2	430.0	444.9	458.9	470.3	486.1	501.4	508.5	518.5
17.5°	354.6	362.1	369.9	377.8	397.1	422.1	442.3	459.4	472.5	481.7	493.5
20°	323.0	330.5	339.3	346.7	358.5	376.5	401.5	430.9	446.6	456.3	467.7
22.5°	300.7	307.7	313.4	320.0	329.2	342.3	361.2	397.6	418.6	430.4	440.5
25°	276.6	285.3	291.5	296.3	303.8	318.2	333.6	354.2	391.9	401.1	415.1
27.5°	259.9	262.6	269.6	277.0	284.5	292.4	308.1	325.7	351.1	371.3	388.4
30°	240.2	246.8	253.3	256.4	263.0	274.4	284.0	302.9	322.6	338.4	359.0
32.5°	225.3	229.2	233.6	241.1	247.2	255.1	264.7	280.5	297.2	307.3	323.0
35°	208.6	211.3	220.5	223.5	229.7	237.6	247.2	259.5	277.5	285.3	296.7
37.5°	192.9	199.0	201.6	208.6	214.3	222.2	229.2	243.3	255.1	264.3	274.8
40°	180.6	183.2	188.0	194.2	199.0	205.1	213.9	224.0	236.7	244.1	253.3
42.5°	165.7	167.9	174.0	177.5	185.4	191.1	196.4	208.6	220.0	225.7	234.9
45°	149.5	154.7	158.7	165.7	170.1	177.1	183.7	192.4	202.9	209.5	214.8
47.5°	135.4	140.7	144.6	151.2	158.2	161.3	168.3	177.5	187.2	192.4	199.9
50°	124.0	125.8	133.2	136.3	143.8	149.9	154.7	162.6	173.1	176.2	182.3
52.5°	113.1	114.4	119.2	123.2	129.7	135.0	141.1	148.6	157.4	162.2	167.0
55°	103.4	104.3	106.5	110.9	115.3	121.9	127.6	134.6	142.0	147.3	151.7
57.5°	92.5	94.2	96.0	98.6	103.0	109.1	115.3	121.9	128.0	131.5	137.2
60°	79.8	82.4	85.5	88.5	91.6	96.0	103.0	109.1	114.8	117.9	122.3
62.5°	66.2	71.4	74.1	77.6	80.2	84.2	89.4	96.4	100.4	104.3	107.8
65°	59.6	60.0	60.5	64.0	68.8	72.8	77.6	82.8	89.0	91.6	94.2
67.5°	53.0	53.5	54.4	54.8	56.5	60.9	66.2	71.9	76.7	78.5	81.1
70°	46.5	46.5	48.2	48.7	49.1	49.5	53.9	59.6	64.0	66.2	69.3
72.5°	39.4	39.9	40.8	41.2	42.1	43.0	44.3	47.3	52.6	54.8	58.3
75°	32.4	32.9	33.3	33.8	35.1	35.5	36.8	38.6	40.8	43.4	45.6
77.5°	25.9	25.9	26.3	27.2	28.1	28.5	29.8	30.7	31.6	32.9	34.6
80°	19.3	19.7	19.7	20.6	20.6	21.0	21.5	22.8	23.7	24.5	25.4
82.5°	13.1	14.0	14.0	14.0	14.5	14.9	15.3	15.3	16.2	16.7	18.0
85°	7.9	8.3	8.3	8.3	7.9	8.8	8.8	9.2	9.2	9.2	9.6
87.5°	3.1	2.6	3.1	3.1	3.1	3.5	3.1	3.1	3.5	3.9	3.9
90°	36.8	34.5	36.8	38.0	39.1	38.0	31.1	23.0	17.3	15.6	13.8
92.5°	86.3	99.0	116.3	148.5	177.3	175.0	135.8	92.1	61.0	54.6	48.3
95°	183.0	231.4	301.6	394.8	451.2	399.4	265.9	165.7	112.8	99.0	85.2
97.5°	376.4	492.6	616.9	741.3	735.5	568.6	353.4	214.1	146.2	130.6	115.1
100°	750.5	908.1	1050.9	1075.0	909.3	626.2	377.5	237.1	176.1	160.0	143.9
102.5°	1225.8	1330.6	1335.2	1199.4	915.1	604.3	378.7	257.8	202.6	186.4	170.3
105°	1543.5	1528.5	1398.5	1159.1	852.9	574.4	384.4	282.0	227.9	211.8	195.7
107.5°	1636.7	1523.9	1330.6	1073.9	795.3	558.2	397.1	306.2	253.2	237.1	221.0
110°	1590.7	1443.4	1237.3	994.5	756.2	553.6	413.2	330.3	279.7	263.0	246.3

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	1507.8	1347.8	1152.2	939.2	730.9	554.8	430.5	353.4	305.0	287.8	270.5
115°	1413.4	1262.7	1085.4	895.5	713.6	559.4	447.7	377.5	328.0	312.5	297.0
117.5°	1329.4	1189.0	1030.2	865.6	704.4	566.3	466.2	399.4	353.4	337.2	321.1
120°	1255.8	1133.7	991.0	842.5	696.4	573.2	484.6	422.4	377.5	361.4	345.3
122.5°	1201.7	1087.7	959.9	823.0	691.8	581.3	500.7	444.3	402.9	386.2	369.5
125°	1149.9	1048.6	930.0	804.6	686.0	589.3	518.0	466.2	424.7	408.6	392.5
127.5°	1106.1	1009.4	900.1	787.3	682.6	597.4	534.1	486.9	446.6	429.9	413.2
130°	1061.2	970.3	871.3	770.0	680.2	606.6	549.0	505.3	465.0	448.9	432.8
132.5°	1015.2	933.5	843.7	756.2	679.1	615.8	564.0	521.4	483.4	467.3	451.2
135°	970.3	894.3	818.4	743.6	677.9	622.7	576.7	536.4	499.5	483.4	467.3
137.5°	925.4	863.3	797.7	734.3	677.9	629.6	587.0	549.0	512.2	497.2	482.3
140°	886.3	833.3	778.1	726.3	676.8	634.2	595.1	559.4	524.9	509.9	494.9
142.5°	850.6	806.9	762.0	718.2	676.8	637.7	602.0	567.4	534.1	520.2	506.4
145°	820.7	785.0	747.0	711.3	674.5	640.0	607.7	575.5	544.4	531.8	519.1
147.5°	795.3	766.6	735.5	704.4	671.0	641.1	611.2	582.4	552.5	541.0	529.5
150°	772.3	748.2	722.8	695.2	667.6	640.0	613.5	587.0	560.5	550.2	539.8
152.5°	752.8	733.2	710.2	687.2	661.8	637.7	614.6	591.6	568.6	559.4	550.2
155°	734.3	717.1	698.7	676.8	654.9	635.4	615.8	596.2	576.7	568.0	559.4
157.5°	715.9	701.0	684.9	667.6	648.0	630.8	615.8	599.7	582.4	574.9	567.4
160°	697.5	684.9	672.2	657.2	641.1	627.3	615.8	602.0	588.2	581.8	575.5
162.5°	680.2	669.9	659.5	648.0	635.4	623.8	614.6	603.1	591.6	587.0	582.4
165°	663.0	654.9	646.9	637.7	627.3	619.2	612.3	604.3	593.9	590.4	587.0
167.5°	646.9	641.1	634.2	627.3	620.4	614.6	611.2	604.3	596.2	593.9	591.6
170°	633.1	628.5	625.0	619.2	614.6	611.2	608.9	603.1	597.4	595.6	593.9
172.5°	620.4	616.9	614.6	611.2	607.7	606.6	605.4	602.0	598.5	597.4	596.2
175°	610.0	608.9	607.7	604.3	603.1	602.0	603.1	600.8	598.5	598.0	597.4
177.5°	603.1	602.0	602.0	599.7	598.5	599.7	602.0	599.7	598.5	598.5	598.5
180°	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5	598.5

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	630.7	630.7	630.7	630.7
2.5°	619.3	618.0	625.9	634.7
5°	606.6	608.8	618.9	631.2
7.5°	593.5	598.3	610.1	626.4
10°	575.1	583.8	601.8	618.5
12.5°	557.1	568.9	586.0	605.8
15°	536.9	550.1	571.1	594.8
17.5°	514.6	529.5	554.0	579.9
20°	490.9	510.6	536.5	564.6
22.5°	464.6	488.3	515.0	546.1
25°	439.2	465.1	491.8	527.7
27.5°	414.2	439.6	469.4	505.8
30°	389.2	412.5	444.5	483.5
32.5°	362.5	386.6	420.3	460.2
35°	337.9	362.1	393.6	433.1
37.5°	311.6	337.5	367.8	408.5
40°	281.0	311.2	340.6	379.6
42.5°	255.5	287.5	316.0	352.8
45°	235.4	265.6	289.3	325.2
47.5°	216.5	241.1	265.2	298.5
50°	198.6	217.4	242.4	272.2
52.5°	180.1	196.4	217.8	245.9
55°	163.5	178.8	198.1	219.6
57.5°	148.2	159.1	178.4	197.7
60°	131.1	142.5	157.4	173.6
62.5°	116.6	125.4	139.4	153.0
65°	101.3	109.6	120.1	132.8
67.5°	87.2	94.7	103.0	113.1
70°	74.5	80.2	86.3	95.1
72.5°	60.9	67.1	72.8	79.8
75°	50.0	52.6	57.4	62.2
77.5°	38.6	42.1	44.7	48.7
80°	27.6	30.7	31.6	34.6
82.5°	18.4	20.2	21.9	22.8
85°	10.5	11.4	13.1	13.6
87.5°	3.9	4.4	5.3	6.1
90°	11.5	9.2	4.6	1.2
92.5°	39.1	33.4	24.2	17.3
95°	66.8	56.4	44.9	40.3
97.5°	94.4	79.4	66.8	59.9
100°	120.9	102.4	92.1	88.6
102.5°	146.2	127.8	117.4	115.1
105°	170.3	153.1	145.0	140.4
107.5°	195.7	179.6	171.5	168.0
110°	222.1	207.2	200.3	195.7

TEST NUMBER: P999469

CATALOG NUMBER: SA2XXRDIP-B290D1080UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	247.5	233.7	225.6	221.0
115°	273.9	260.1	253.2	247.5
117.5°	299.3	286.6	279.7	275.1
120°	322.3	311.9	305.0	300.4
122.5°	346.5	334.9	328.0	324.6
125°	369.5	355.7	348.8	345.3
127.5°	391.3	376.4	367.2	362.6
130°	409.8	393.6	382.1	377.5
132.5°	427.0	409.8	397.1	391.3
135°	440.8	423.6	409.8	405.2
137.5°	455.8	437.4	423.6	417.8
140°	469.6	451.2	437.4	432.8
142.5°	482.3	463.9	451.2	447.7
145°	496.1	478.8	467.3	462.7
147.5°	509.9	493.8	482.3	478.8
150°	522.6	507.6	498.4	494.9
152.5°	534.1	521.4	512.2	511.0
155°	546.7	534.1	527.2	526.0
157.5°	557.1	545.6	539.8	538.7
160°	566.3	557.1	552.5	551.3
162.5°	574.4	567.4	562.8	564.0
165°	581.3	574.4	572.1	573.2
167.5°	587.0	582.4	580.1	581.3
170°	591.6	588.2	587.0	589.3
172.5°	595.1	591.6	592.8	593.9
175°	597.4	595.1	596.2	597.4
177.5°	598.5	596.2	597.4	599.7
180°	598.5	598.5	598.5	598.5

(END OF REPORT)