

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: P999485

Luminaire Tested: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999485
REPORT IS A COMBINATION OF REPORTS P988036 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

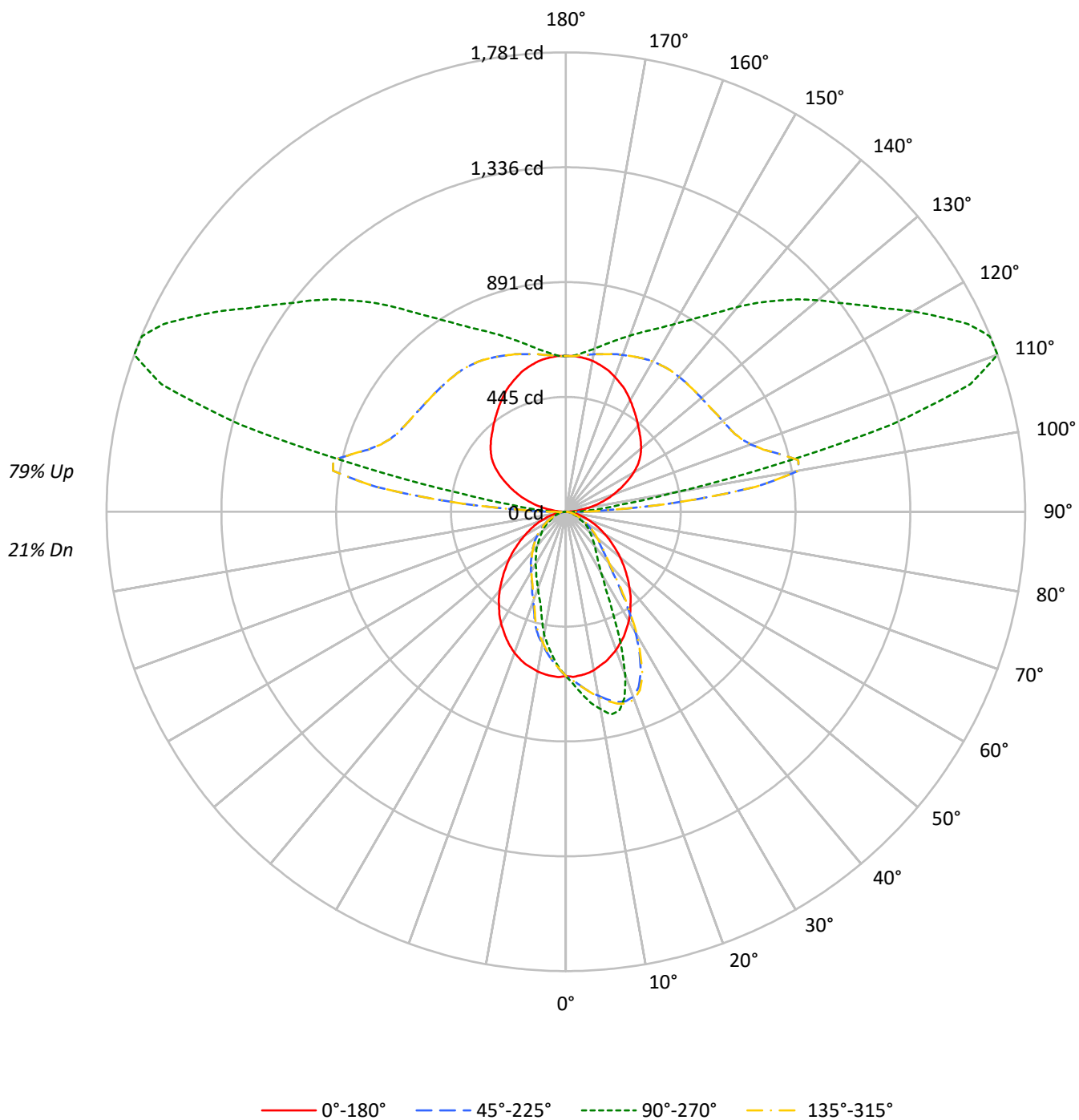
Lumens per Lamp: N/A
Luminaire Lumens: 5308.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10075	10075	10075	10075
5°	10100	10702	10135	8550
10°	9987	11313	10059	7060
15°	9772	11315	9936	5304
20°	9510	9353	9717	4376
25°	9195	5844	9394	3723
30°	8791	3743	9031	3205
35°	8299	2876	8569	2743
40°	7754	2417	8083	2399
45°	7168	2058	7467	2014
50°	6569	1749	6875	1742
55°	5905	1519	6225	1500
60°	5316	1159	5599	1145
65°	4764	871	5048	989
70°	4157	697	4482	807
75°	3513	534	3838	609
80°	2786	364	3002	399
85°	1935	188	2119	198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 9218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.4	1.1
10°-20°	168.5	3.2
20°-30°	216.9	4.1
30°-40°	205.8	3.9
40°-50°	176.3	3.3
50°-60°	134.3	2.5
60°-70°	84.7	1.6
70°-80°	42.3	0.8
80°-90°	14.7	0.3
90°-100°	235.3	4.4
100°-110°	828.8	15.6
110°-120°	870.4	16.4
120°-130°	716.1	13.5
130°-140°	575.3	10.8
140°-150°	434.5	8.2
150°-160°	305.5	5.8
160°-170°	179.8	3.4
170°-180°	58.5	1.1
0°-30°	445.8	8.4
0°-40°	651.5	12.3
0°-60°	962.2	18.1
0°-90°	1103.9	20.8
90°-120°	1934.5	36.4
90°-150°	3660.3	69.0
90°-180°	4204.0	79.2
0°-180°	5308.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	636	636	636	636	636	
5°	637	708	639	566	637	60
15°	600	799	610	375	600	169
25°	533	426	544	272	533	245
35°	437	210	451	200	437	273
45°	328	146	342	143	328	253
55°	222	101	234	100	222	200
65°	134	53	142	60	134	133
75°	63	28	69	32	63	68
85°	14	8	15	8	14	16
90°	1	38	1	38	1	4
95°	41	132	41	132	41	42
105°	142	1308	142	1308	142	150
115°	250	1722	250	1722	250	248
125°	348	1397	348	1397	348	310
135°	409	1158	409	1158	409	316
145°	467	924	467	924	467	293
155°	531	777	531	777	531	244
165°	578	682	578	682	578	163
175°	602	614	602	614	602	57
180°	604	604	604	604	604	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	640.5	643.2	644.5	646.3	650.2	652.9	656.9	657.8	657.3	659.1	654.2
5°	637.0	642.7	648.0	652.5	659.5	664.0	668.8	674.6	675.9	682.5	678.6
7.5°	632.1	640.5	648.0	656.9	667.5	673.2	680.8	689.6	693.6	701.6	703.8
10°	624.1	636.1	648.9	658.2	672.8	683.0	690.1	704.2	713.5	725.4	723.7
12.5°	611.3	626.8	644.0	659.5	678.6	685.2	698.5	713.1	725.0	736.1	745.8
15°	600.3	618.0	637.0	656.0	677.7	690.1	703.3	722.3	735.2	754.6	763.0
17.5°	585.2	607.8	630.3	651.6	677.2	691.4	707.7	726.3	745.3	763.9	770.6
20°	569.7	594.1	618.4	647.1	676.3	690.1	706.9	729.9	748.4	763.0	763.0
22.5°	551.2	580.8	608.7	636.1	667.9	687.8	705.1	732.1	745.3	748.4	736.5
25°	532.6	562.2	592.7	626.8	663.1	680.8	700.2	725.4	729.9	717.5	686.5
27.5°	510.5	543.6	578.1	614.9	652.9	675.0	692.7	709.5	701.1	667.9	619.7
30°	487.9	523.7	562.7	597.6	643.6	664.0	679.0	683.9	657.3	603.4	541.0
32.5°	464.5	499.4	540.5	582.6	629.0	648.5	658.2	645.4	596.7	528.6	452.5
35°	437.0	476.4	519.3	563.1	609.1	623.7	629.5	598.0	535.7	447.6	372.0
37.5°	412.3	451.6	497.6	542.3	587.0	594.9	589.2	540.1	460.9	373.8	299.9
40°	383.1	425.1	470.2	520.2	556.9	559.1	545.0	481.3	383.1	301.2	255.7
42.5°	356.1	398.5	443.7	494.5	522.4	514.9	495.9	412.3	319.8	259.7	222.9
45°	328.2	368.5	417.1	462.2	482.2	464.5	435.7	346.8	268.5	223.4	195.1
47.5°	301.2	338.8	387.0	430.4	433.9	414.0	380.0	290.6	232.7	196.4	173.4
50°	274.7	312.3	357.4	393.2	389.7	362.3	323.8	252.6	202.1	173.4	154.4
52.5°	248.2	282.2	326.0	354.3	339.3	312.7	274.7	214.1	176.5	151.3	136.7
55°	221.6	253.5	291.1	314.5	290.6	260.1	233.1	183.6	153.0	132.7	121.6
57.5°	199.5	224.7	259.2	273.4	244.6	220.7	197.3	157.9	132.7	118.1	105.3
60°	175.2	198.2	226.5	234.9	205.2	185.8	165.9	133.6	113.7	100.9	92.4
62.5°	154.4	173.4	195.1	195.1	169.0	154.4	139.3	111.9	95.5	85.4	81.4
65°	134.0	147.7	163.2	161.5	139.3	126.5	114.6	92.4	80.1	73.0	69.0
67.5°	114.1	124.7	134.9	128.7	112.8	101.7	90.7	74.8	66.4	61.5	56.2
70°	96.0	104.4	109.7	104.0	88.0	78.7	70.8	60.2	53.5	47.3	44.2
72.5°	80.5	84.0	85.8	78.7	65.5	60.2	54.4	46.9	41.1	38.0	37.2
75°	62.8	65.9	64.6	59.3	48.2	44.2	39.8	34.5	33.2	31.4	30.5
77.5°	49.1	49.1	46.9	42.0	34.5	31.4	29.6	27.0	25.7	25.2	24.3
80°	34.9	34.5	33.2	27.9	23.4	21.7	21.7	19.9	19.5	18.6	18.6
82.5°	23.0	23.0	21.2	16.8	15.5	15.0	14.6	13.7	13.7	13.3	13.3
85°	13.7	12.8	10.6	9.3	8.8	8.8	8.4	8.0	8.4	8.0	8.0
87.5°	6.2	4.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
90°	1.2	4.6	9.3	11.6	13.9	15.6	17.4	23.2	31.3	38.3	39.5
92.5°	17.4	24.4	33.7	39.5	48.8	55.2	61.5	92.9	137.0	176.5	178.8
95°	40.6	45.3	56.9	67.3	85.9	99.8	113.8	167.2	268.2	402.8	455.1
97.5°	60.4	67.3	80.1	95.2	116.1	131.8	147.4	215.9	356.4	573.5	741.8
100°	89.4	92.9	103.3	121.9	145.1	161.4	177.6	239.2	380.8	631.6	917.1
102.5°	116.1	118.4	128.9	147.4	171.8	188.0	204.3	260.1	382.0	609.5	923.0
105°	141.6	146.3	154.4	171.8	197.4	213.6	229.9	284.4	387.8	579.3	860.3
107.5°	169.5	173.0	181.1	197.4	222.9	239.2	255.4	308.8	400.5	563.1	802.2
110°	197.4	202.0	209.0	224.1	248.4	265.2	282.1	333.2	416.8	558.4	762.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	222.9	227.5	235.7	249.6	272.8	290.2	307.7	356.4	434.2	559.6	737.2
115°	249.6	255.4	262.4	276.3	299.5	315.2	330.9	380.8	451.6	564.2	719.8
117.5°	277.5	282.1	289.1	301.8	323.9	340.2	356.4	402.8	470.2	571.2	710.5
120°	303.0	307.7	314.6	325.1	348.3	364.6	380.8	426.1	488.8	578.2	702.4
122.5°	327.4	330.9	337.8	349.4	372.7	389.5	406.3	448.1	505.0	586.3	697.7
125°	348.3	351.8	358.7	372.7	395.9	412.2	428.4	470.2	522.4	594.4	691.9
127.5°	365.7	370.3	379.6	394.7	416.8	433.6	450.4	491.1	538.7	602.5	688.4
130°	380.8	385.4	397.0	413.3	436.5	452.8	469.0	509.7	553.8	611.8	686.1
132.5°	394.7	400.5	413.3	430.7	455.1	471.4	487.6	525.9	568.9	621.1	685.0
135°	408.7	413.3	427.2	444.6	471.3	487.6	503.8	541.0	581.6	628.1	683.8
137.5°	421.4	427.2	441.2	459.7	486.4	501.5	516.6	553.8	592.1	635.0	683.8
140°	436.5	441.2	455.1	473.7	499.2	514.3	529.4	564.2	600.2	639.7	682.6
142.5°	451.6	455.1	467.9	486.4	510.8	524.8	538.7	572.3	607.2	643.2	682.6
145°	466.7	471.3	483.0	500.4	523.6	536.4	549.1	580.5	613.0	645.5	680.3
147.5°	483.0	486.4	498.0	514.3	534.0	545.6	557.3	587.4	616.5	646.6	676.8
150°	499.2	502.7	512.0	527.1	544.5	555.0	565.4	592.1	618.8	645.5	673.3
152.5°	515.5	516.6	525.9	538.7	554.9	564.2	573.5	596.7	619.9	643.2	667.5
155°	530.6	531.7	538.7	551.4	564.2	572.9	581.6	601.4	621.1	640.8	660.6
157.5°	543.3	544.5	550.3	561.9	572.3	579.8	587.4	604.9	621.1	636.2	653.6
160°	556.1	557.3	561.9	571.2	580.5	586.8	593.2	607.2	621.1	632.7	646.6
162.5°	568.9	567.7	572.3	579.3	587.4	592.0	596.7	608.3	619.9	629.2	640.8
165°	578.2	577.0	579.3	586.3	592.1	595.6	599.0	609.5	617.6	624.6	632.7
167.5°	586.3	585.1	587.4	592.1	596.7	599.0	601.4	609.5	616.5	619.9	625.7
170°	594.4	592.1	593.2	596.7	599.0	600.8	602.5	608.3	614.1	616.5	619.9
172.5°	599.0	597.9	596.7	600.2	601.4	602.6	603.7	607.2	610.7	611.8	613.0
175°	602.5	601.4	600.2	602.5	602.5	603.1	603.7	606.0	608.3	607.2	608.3
177.5°	604.9	602.5	601.4	603.7	603.7	603.7	603.7	604.9	607.2	604.9	603.7
180°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	659.1	660.0	661.3	667.5	668.4	670.1	669.3	669.3	669.7	668.8	669.3
5°	687.4	688.7	695.4	702.9	704.6	702.9	705.1	708.2	708.2	708.2	707.3
7.5°	713.9	718.8	726.3	737.4	739.6	741.8	745.8	743.1	744.0	748.0	746.7
10°	739.6	746.7	755.1	764.4	769.2	772.3	774.1	778.1	787.4	776.8	780.7
12.5°	763.9	774.1	782.9	793.1	796.7	800.6	802.0	805.5	805.5	805.1	808.2
15°	779.8	789.1	797.1	803.7	804.6	803.7	802.8	803.3	804.6	799.3	802.4
17.5°	783.4	784.3	786.9	784.3	784.7	775.4	770.1	768.8	756.4	756.8	767.0
20°	766.1	751.1	747.1	732.5	723.7	699.8	698.9	692.3	666.2	674.1	672.4
22.5°	718.8	693.1	659.1	642.3	633.9	608.7	589.2	575.5	566.2	556.9	552.9
25°	656.4	614.9	566.6	533.5	528.6	505.2	469.3	452.5	432.6	426.4	437.0
27.5°	575.9	522.0	467.6	416.7	407.4	386.2	368.0	356.1	333.1	331.8	332.6
30°	466.7	412.3	366.7	333.5	310.5	300.8	288.8	280.0	270.7	274.3	275.1
32.5°	383.5	331.8	289.3	271.6	261.0	254.8	244.6	238.9	234.9	233.6	233.1
35°	304.8	270.3	251.2	234.0	227.8	223.4	215.9	213.2	209.7	210.1	210.1
37.5°	261.0	232.2	218.1	209.2	203.5	201.3	196.4	193.7	191.5	190.6	192.0
40°	225.2	205.2	196.4	188.4	183.6	182.7	180.0	176.9	174.3	174.7	176.1
42.5°	199.1	187.6	176.9	170.7	167.2	165.9	163.7	161.5	161.5	160.1	159.7
45°	178.3	169.0	160.1	154.4	152.2	150.4	147.7	147.3	145.5	146.0	146.4
47.5°	159.7	152.2	145.5	139.8	137.6	137.1	134.5	132.7	132.7	132.3	131.8
50°	142.9	135.4	129.6	126.5	123.4	122.5	122.1	121.6	120.8	120.8	121.2
52.5°	129.2	121.6	117.2	114.6	112.8	111.9	111.9	111.5	111.5	111.5	111.0
55°	114.1	107.9	104.4	103.5	102.6	102.2	101.7	100.9	100.4	101.3	100.4
57.5°	100.0	97.8	94.7	93.8	91.6	91.6	90.2	89.4	88.5	89.4	89.4
60°	88.9	85.8	84.0	81.4	79.6	77.9	75.6	75.2	74.3	73.9	73.4
62.5°	77.4	74.8	70.3	66.4	63.7	61.9	61.0	60.6	60.6	60.2	60.2
65°	64.6	58.4	56.2	54.9	54.4	54.0	53.1	52.6	53.1	52.6	53.1
67.5°	50.4	49.5	48.2	47.3	46.9	46.4	46.4	46.0	46.0	46.0	46.0
70°	43.8	41.6	41.1	40.3	40.3	39.8	39.8	39.8	39.8	39.4	40.3
72.5°	36.3	34.9	34.5	34.1	34.1	34.1	33.6	33.6	33.6	33.2	33.6
75°	29.6	29.2	28.3	28.3	27.9	28.3	27.9	27.9	27.4	27.9	27.9
77.5°	23.9	23.4	23.0	23.0	22.6	22.6	22.6	22.6	22.6	22.6	23.0
80°	18.1	17.7	17.3	17.7	17.3	17.7	17.3	17.3	17.7	17.3	17.3
82.5°	13.3	12.8	12.8	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
85°	8.0	7.5	7.5	8.0	7.5	8.0	7.5	7.5	7.5	8.0	8.0
87.5°	3.5	4.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.0
90°	38.3	37.2	34.8	37.2	37.8	38.3	38.3	38.3	38.3	38.3	38.3
92.5°	149.8	117.3	99.8	87.1	82.4	77.8	76.6	72.0	73.1	70.8	73.1
95°	398.2	304.2	233.3	184.6	171.8	159.0	144.0	134.7	131.2	132.3	131.2
97.5°	747.6	622.3	496.9	379.6	344.8	310.0	264.7	241.5	228.7	221.7	228.7
100°	1084.3	1059.9	916.0	756.9	686.7	616.5	520.1	470.2	436.5	415.6	436.5
102.5°	1209.7	1346.7	1342.1	1236.4	1161.0	1085.5	978.7	884.6	840.5	810.3	840.5
105°	1169.1	1410.5	1541.7	1556.8	1537.6	1518.5	1446.5	1374.6	1324.6	1308.4	1324.6
107.5°	1083.2	1342.1	1537.1	1650.9	1674.1	1697.3	1696.1	1685.7	1670.6	1643.9	1670.6
110°	1003.1	1248.0	1455.8	1604.4	1652.0	1699.6	1749.5	1771.6	1782.0	1780.9	1782.0

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	947.3	1162.1	1359.5	1520.8	1577.1	1633.4	1707.7	1748.4	1770.4	1778.6	1770.4
115°	903.2	1094.8	1273.6	1425.6	1485.4	1545.2	1627.6	1681.0	1711.2	1721.7	1711.2
117.5°	873.0	1039.0	1199.3	1340.9	1397.8	1454.7	1539.4	1596.3	1627.6	1635.8	1627.6
120°	849.8	999.6	1143.5	1266.6	1319.4	1372.2	1453.5	1508.1	1541.7	1553.3	1541.7
122.5°	830.1	968.2	1097.1	1212.0	1258.4	1304.9	1375.7	1429.1	1458.1	1467.4	1458.1
125°	811.5	938.0	1057.6	1159.8	1203.4	1246.9	1314.2	1358.3	1387.3	1396.6	1387.3
127.5°	794.1	907.9	1018.1	1115.7	1156.3	1196.9	1256.1	1297.9	1323.5	1330.4	1323.5
130°	776.7	878.8	978.7	1070.4	1108.7	1147.0	1203.9	1243.4	1266.6	1275.9	1266.6
132.5°	762.7	851.0	941.5	1024.0	1059.4	1094.8	1150.5	1190.0	1210.9	1219.0	1210.9
135°	750.0	825.4	902.1	978.7	1011.2	1043.7	1093.6	1131.9	1152.8	1157.5	1152.8
137.5°	740.7	804.5	870.7	933.4	962.4	991.4	1039.0	1072.7	1091.3	1098.3	1091.3
140°	732.6	784.8	840.5	893.9	919.4	945.0	982.2	1012.3	1029.8	1036.7	1029.8
142.5°	724.4	768.5	813.8	857.9	878.2	898.6	933.4	960.1	975.2	975.2	975.2
145°	717.5	753.5	791.8	827.8	844.6	861.4	889.3	909.0	920.6	924.1	920.6
147.5°	710.5	741.8	773.2	802.2	815.0	827.8	852.1	868.4	876.5	878.8	876.5
150°	701.2	729.1	754.6	779.0	789.4	799.9	817.3	831.2	838.2	839.4	838.2
152.5°	693.1	716.3	739.5	759.3	768.0	776.7	789.4	801.1	805.7	805.7	805.7
155°	682.6	704.7	723.3	740.7	747.1	753.5	766.2	774.3	779.0	776.7	779.0
157.5°	673.3	690.8	707.0	722.1	727.4	732.6	741.8	748.8	751.1	751.1	751.1
160°	662.9	678.0	690.8	703.5	707.6	711.7	719.8	725.6	726.8	726.8	726.8
162.5°	653.6	665.2	675.7	686.1	689.0	691.9	700.0	703.5	704.7	703.5	704.7
165°	643.2	652.5	660.6	668.7	671.0	673.3	678.0	682.6	682.6	681.5	682.6
167.5°	632.7	639.7	646.6	652.5	654.8	657.1	659.4	661.7	661.7	660.6	661.7
170°	624.6	630.4	633.9	638.5	639.6	640.8	642.0	645.5	644.3	642.0	644.3
172.5°	616.5	619.9	622.3	625.7	626.3	626.9	628.1	629.2	628.1	626.9	628.1
175°	609.5	613.0	614.1	615.3	615.9	616.5	616.5	617.6	616.5	614.1	616.5
177.5°	604.9	607.2	607.2	608.3	608.3	608.3	608.3	608.3	607.2	604.9	607.2
180°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	671.0	667.9	667.0	667.9	667.0	667.5	664.4	652.9	656.0	651.1	653.8
5°	709.1	706.4	700.7	699.8	698.9	698.0	693.6	683.4	679.4	672.8	672.4
7.5°	745.3	745.3	740.9	737.8	733.8	730.7	725.0	710.0	703.8	695.8	691.4
10°	781.2	769.7	774.5	771.4	761.7	759.9	749.3	740.5	728.5	720.6	713.5
12.5°	806.8	803.3	798.9	796.2	793.6	787.8	780.7	758.2	752.0	736.1	728.1
15°	805.9	803.7	805.1	805.1	804.2	802.8	797.1	780.7	770.1	754.6	740.9
17.5°	762.6	768.3	774.1	778.1	786.9	790.9	796.2	786.5	779.8	766.6	752.0
20°	687.0	701.1	717.9	721.5	729.4	752.9	763.5	771.9	774.5	770.1	758.2
22.5°	581.7	593.6	634.3	633.4	644.9	672.8	703.8	729.0	748.9	759.9	755.5
25°	455.6	472.4	494.1	510.5	548.1	589.6	628.1	668.4	702.9	733.4	740.9
27.5°	344.6	366.7	384.0	405.6	424.6	473.7	523.3	586.1	626.4	684.3	714.4
30°	278.7	288.8	306.1	316.3	325.6	363.2	419.3	481.3	552.0	618.8	670.6
32.5°	238.0	245.1	257.9	262.3	272.0	297.3	332.6	389.3	462.2	543.2	611.3
35°	213.7	221.2	223.8	227.8	235.8	251.7	276.0	317.2	383.1	462.2	543.6
37.5°	192.9	196.8	204.4	207.0	209.7	221.6	238.0	266.7	310.5	375.5	465.8
40°	178.3	180.5	184.5	186.7	188.4	196.8	211.4	230.9	263.2	312.7	395.9
42.5°	162.8	165.4	168.1	170.7	173.0	179.6	188.4	207.0	228.7	266.3	326.4
45°	147.7	149.5	152.6	154.4	157.5	162.8	170.7	183.6	203.0	226.9	275.6
47.5°	134.0	136.2	137.6	139.8	142.0	147.7	155.3	163.7	179.6	203.0	238.4
50°	121.6	124.3	126.1	126.5	128.3	133.6	139.8	149.1	159.2	177.4	208.3
52.5°	112.8	113.2	114.6	116.3	115.9	119.0	124.7	131.8	142.4	157.0	179.6
55°	102.6	104.0	104.8	105.3	105.3	107.9	111.0	117.7	126.1	138.0	157.0
57.5°	89.8	91.1	93.8	94.7	96.0	97.3	98.6	103.1	110.1	121.6	137.1
60°	76.5	77.4	80.1	81.8	82.7	86.3	88.0	91.6	95.5	104.0	118.5
62.5°	61.5	62.4	63.7	65.5	67.2	72.5	77.0	80.5	83.6	89.4	101.3
65°	53.5	54.0	54.9	55.3	55.7	57.9	61.9	66.8	72.5	77.0	84.0
67.5°	46.4	46.9	47.3	48.2	48.7	49.1	50.9	52.2	57.9	64.1	69.4
70°	39.8	40.7	41.1	41.1	41.6	42.5	43.3	45.1	46.9	50.0	56.6
72.5°	33.6	34.1	34.9	34.9	34.9	35.8	36.7	37.6	38.5	40.3	42.9
75°	27.9	28.8	28.8	28.8	29.2	29.2	30.1	31.0	31.8	33.2	34.1
77.5°	23.0	23.0	23.0	23.0	23.4	23.4	23.9	24.8	25.2	25.7	26.5
80°	17.3	17.7	17.7	17.7	18.1	18.1	18.1	19.0	19.5	19.5	20.3
82.5°	12.8	12.8	12.8	13.3	12.8	13.3	13.3	13.7	13.3	13.7	14.2
85°	8.0	8.0	8.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.8
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.4	4.0	4.0
90°	38.3	38.3	38.3	37.8	37.2	34.8	37.2	38.3	39.5	38.3	31.3
92.5°	72.0	76.6	77.8	82.4	87.1	99.8	117.3	149.8	178.8	176.5	137.0
95°	134.7	144.0	159.0	171.8	184.6	233.3	304.2	398.2	455.1	402.8	268.2
97.5°	241.5	264.7	310.0	344.8	379.6	496.9	622.3	747.6	741.8	573.5	356.4
100°	470.2	520.1	616.5	686.7	756.9	916.0	1059.9	1084.3	917.1	631.6	380.8
102.5°	884.6	978.7	1085.5	1161.0	1236.4	1342.1	1346.7	1209.7	923.0	609.5	382.0
105°	1374.6	1446.5	1518.5	1537.6	1556.8	1541.7	1410.5	1169.1	860.3	579.3	387.8
107.5°	1685.7	1696.1	1697.3	1674.1	1650.9	1537.1	1342.1	1083.2	802.2	563.1	400.5
110°	1771.6	1749.5	1699.6	1652.0	1604.4	1455.8	1248.0	1003.1	762.7	558.4	416.8



TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1748.4	1707.7	1633.4	1577.1	1520.8	1359.5	1162.1	947.3	737.2	559.6	434.2
115°	1681.0	1627.6	1545.2	1485.4	1425.6	1273.6	1094.8	903.2	719.8	564.2	451.6
117.5°	1596.3	1539.4	1454.7	1397.8	1340.9	1199.3	1039.0	873.0	710.5	571.2	470.2
120°	1508.1	1453.5	1372.2	1319.4	1266.6	1143.5	999.6	849.8	702.4	578.2	488.8
122.5°	1429.1	1375.7	1304.9	1258.4	1212.0	1097.1	968.2	830.1	697.7	586.3	505.0
125°	1358.3	1314.2	1246.9	1203.4	1159.8	1057.6	938.0	811.5	691.9	594.4	522.4
127.5°	1297.9	1256.1	1196.9	1156.3	1115.7	1018.1	907.9	794.1	688.4	602.5	538.7
130°	1243.4	1203.9	1147.0	1108.7	1070.4	978.7	878.8	776.7	686.1	611.8	553.8
132.5°	1190.0	1150.5	1094.8	1059.4	1024.0	941.5	851.0	762.7	685.0	621.1	568.9
135°	1131.9	1093.6	1043.7	1011.2	978.7	902.1	825.4	750.0	683.8	628.1	581.6
137.5°	1072.7	1039.0	991.4	962.4	933.4	870.7	804.5	740.7	683.8	635.0	592.1
140°	1012.3	982.2	945.0	919.4	893.9	840.5	784.8	732.6	682.6	639.7	600.2
142.5°	960.1	933.4	898.6	878.2	857.9	813.8	768.5	724.4	682.6	643.2	607.2
145°	909.0	889.3	861.4	844.6	827.8	791.8	753.5	717.5	680.3	645.5	613.0
147.5°	868.4	852.1	827.8	815.0	802.2	773.2	741.8	710.5	676.8	646.6	616.5
150°	831.2	817.3	799.9	789.4	779.0	754.6	729.1	701.2	673.3	645.5	618.8
152.5°	801.1	789.4	776.7	768.0	759.3	739.5	716.3	693.1	667.5	643.2	619.9
155°	774.3	766.2	753.5	747.1	740.7	723.3	704.7	682.6	660.6	640.8	621.1
157.5°	748.8	741.8	732.6	727.4	722.1	707.0	690.8	673.3	653.6	636.2	621.1
160°	725.6	719.8	711.7	707.6	703.5	690.8	678.0	662.9	646.6	632.7	621.1
162.5°	703.5	700.0	691.9	689.0	686.1	675.7	665.2	653.6	640.8	629.2	619.9
165°	682.6	678.0	673.3	671.0	668.7	660.6	652.5	643.2	632.7	624.6	617.6
167.5°	661.7	659.4	657.1	654.8	652.5	646.6	639.7	632.7	625.7	619.9	616.5
170°	645.5	642.0	640.8	639.6	638.5	633.9	630.4	624.6	619.9	616.5	614.1
172.5°	629.2	628.1	626.9	626.3	625.7	622.3	619.9	616.5	613.0	611.8	610.7
175°	617.6	616.5	616.5	615.9	615.3	614.1	613.0	609.5	608.3	607.2	608.3
177.5°	608.3	608.3	608.3	608.3	608.3	607.2	607.2	604.9	603.7	604.9	607.2
180°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	649.8	647.6	647.6	646.3	646.3	639.2	639.2	641.4	638.7	635.6	631.2
5°	666.6	661.7	660.4	658.6	652.9	644.0	640.5	639.2	633.9	627.2	619.7
7.5°	682.5	674.6	670.6	666.6	659.1	646.7	639.6	634.8	626.8	616.6	606.9
10°	698.0	687.8	677.7	672.8	662.2	646.7	636.5	628.6	617.1	603.4	589.6
12.5°	712.2	690.9	689.2	679.4	664.0	646.3	630.8	619.3	604.7	588.8	572.8
15°	724.6	702.9	692.3	683.4	663.1	641.0	624.6	610.4	591.0	572.8	553.4
17.5°	730.7	707.3	700.2	685.6	664.8	636.1	614.0	596.7	575.5	553.8	531.7
20°	736.9	709.5	698.0	687.8	659.5	626.8	602.0	582.1	558.7	533.0	508.7
22.5°	740.0	709.5	695.8	681.6	654.2	616.6	587.4	564.0	536.6	510.5	481.3
25°	734.7	706.9	690.5	675.9	644.9	604.2	570.6	544.1	514.9	485.2	455.6
27.5°	721.5	700.7	681.6	666.6	632.1	588.3	552.9	522.8	492.8	459.6	429.5
30°	696.7	687.4	672.4	655.5	618.0	574.2	532.1	501.2	468.0	434.8	403.4
32.5°	658.2	666.2	656.4	641.8	601.1	554.7	510.0	478.6	442.3	406.5	377.8
35°	611.3	639.6	634.3	624.1	583.4	533.9	489.2	451.2	414.9	378.6	349.9
37.5°	560.0	602.9	607.3	601.1	563.1	512.7	463.6	426.4	389.3	352.5	323.4
40°	489.7	555.6	569.7	572.4	541.9	487.0	435.7	399.4	362.7	326.9	291.5
42.5°	425.1	508.2	525.9	537.0	514.9	461.8	410.0	369.8	333.5	301.2	265.8
45°	364.5	451.2	479.9	494.1	484.4	433.1	379.5	341.9	308.8	279.1	245.1
47.5°	302.1	389.3	429.5	452.1	452.1	403.9	350.3	313.2	281.3	256.1	226.0
50°	260.5	333.1	374.7	404.3	412.3	374.2	323.8	287.5	257.4	230.0	207.0
52.5°	222.1	287.1	321.6	352.5	375.5	342.4	294.2	261.4	231.8	206.1	188.0
55°	192.0	240.6	272.0	306.1	331.8	310.1	265.4	233.6	207.9	186.7	171.2
57.5°	163.2	205.7	231.3	261.4	288.8	272.5	236.7	209.2	186.7	168.1	154.4
60°	138.9	173.4	193.3	216.7	250.8	239.3	209.7	184.5	166.3	149.5	138.0
62.5°	118.1	145.5	162.3	179.1	210.1	204.8	181.8	162.3	146.9	132.7	123.0
65°	96.9	119.4	132.7	147.3	172.1	174.3	155.7	142.0	127.8	115.5	106.6
67.5°	78.3	96.0	107.9	120.3	140.2	146.4	133.6	122.1	110.1	100.0	92.0
70°	63.3	75.6	84.5	94.2	110.6	118.1	111.5	103.5	93.8	85.4	78.3
72.5°	50.0	57.9	63.3	70.8	84.0	91.6	91.1	84.0	77.0	71.2	65.5
75°	36.7	42.9	47.3	52.2	62.8	69.9	71.7	68.6	61.5	57.1	52.6
77.5°	27.9	31.4	33.6	37.2	44.7	50.9	53.5	52.6	47.8	44.2	41.1
80°	21.2	22.1	23.0	24.3	30.5	36.3	38.0	37.6	34.9	33.6	30.1
82.5°	15.0	15.5	15.9	16.4	18.6	23.4	25.2	26.1	23.9	22.6	19.5
85°	8.8	9.3	9.3	10.2	10.6	11.9	15.0	15.0	14.6	12.8	12.4
87.5°	4.4	4.4	4.0	4.0	4.4	4.9	5.8	6.6	5.8	5.3	4.9
90°	23.2	17.4	15.6	13.9	11.6	9.3	4.6	1.2	4.6	9.3	11.6
92.5°	92.9	61.5	55.2	48.8	39.5	33.7	24.4	17.4	24.4	33.7	39.5
95°	167.2	113.8	99.8	85.9	67.3	56.9	45.3	40.6	45.3	56.9	67.3
97.5°	215.9	147.4	131.8	116.1	95.2	80.1	67.3	60.4	67.3	80.1	95.2
100°	239.2	177.6	161.4	145.1	121.9	103.3	92.9	89.4	92.9	103.3	121.9
102.5°	260.1	204.3	188.0	171.8	147.4	128.9	118.4	116.1	118.4	128.9	147.4
105°	284.4	229.9	213.6	197.4	171.8	154.4	146.3	141.6	146.3	154.4	171.8
107.5°	308.8	255.4	239.2	222.9	197.4	181.1	173.0	169.5	173.0	181.1	197.4
110°	333.2	282.1	265.2	248.4	224.1	209.0	202.0	197.4	202.0	209.0	224.1

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	356.4	307.7	290.2	272.8	249.6	235.7	227.5	222.9	227.5	235.7	249.6
115°	380.8	330.9	315.2	299.5	276.3	262.4	255.4	249.6	255.4	262.4	276.3
117.5°	402.8	356.4	340.2	323.9	301.8	289.1	282.1	277.5	282.1	289.1	301.8
120°	426.1	380.8	364.6	348.3	325.1	314.6	307.7	303.0	307.7	314.6	325.1
122.5°	448.1	406.3	389.5	372.7	349.4	337.8	330.9	327.4	330.9	337.8	349.4
125°	470.2	428.4	412.2	395.9	372.7	358.7	351.8	348.3	351.8	358.7	372.7
127.5°	491.1	450.4	433.6	416.8	394.7	379.6	370.3	365.7	370.3	379.6	394.7
130°	509.7	469.0	452.8	436.5	413.3	397.0	385.4	380.8	385.4	397.0	413.3
132.5°	525.9	487.6	471.4	455.1	430.7	413.3	400.5	394.7	400.5	413.3	430.7
135°	541.0	503.8	487.6	471.3	444.6	427.2	413.3	408.7	413.3	427.2	444.6
137.5°	553.8	516.6	501.5	486.4	459.7	441.2	427.2	421.4	427.2	441.2	459.7
140°	564.2	529.4	514.3	499.2	473.7	455.1	441.2	436.5	441.2	455.1	473.7
142.5°	572.3	538.7	524.8	510.8	486.4	467.9	455.1	451.6	455.1	467.9	486.4
145°	580.5	549.1	536.4	523.6	500.4	483.0	471.3	466.7	471.3	483.0	500.4
147.5°	587.4	557.3	545.6	534.0	514.3	498.0	486.4	483.0	486.4	498.0	514.3
150°	592.1	565.4	555.0	544.5	527.1	512.0	502.7	499.2	502.7	512.0	527.1
152.5°	596.7	573.5	564.2	554.9	538.7	525.9	516.6	515.5	516.6	525.9	538.7
155°	601.4	581.6	572.9	564.2	551.4	538.7	531.7	530.6	531.7	538.7	551.4
157.5°	604.9	587.4	579.8	572.3	561.9	550.3	544.5	543.3	544.5	550.3	561.9
160°	607.2	593.2	586.8	580.5	571.2	561.9	557.3	556.1	557.3	561.9	571.2
162.5°	608.3	596.7	592.0	587.4	579.3	572.3	567.7	568.9	567.7	572.3	579.3
165°	609.5	599.0	595.6	592.1	586.3	579.3	577.0	578.2	577.0	579.3	586.3
167.5°	609.5	601.4	599.0	596.7	592.1	587.4	585.1	586.3	585.1	587.4	592.1
170°	608.3	602.5	600.8	599.0	596.7	593.2	592.1	594.4	592.1	593.2	596.7
172.5°	607.2	603.7	602.6	601.4	600.2	596.7	597.9	599.0	597.9	596.7	600.2
175°	606.0	603.7	603.1	602.5	602.5	600.2	601.4	602.5	601.4	600.2	602.5
177.5°	604.9	603.7	603.7	603.7	603.7	601.4	602.5	604.9	602.5	601.4	603.7
180°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	629.5	629.9	631.2	627.2	621.0	618.4	610.4	609.1	607.8	607.8	609.1
5°	615.3	613.5	614.0	606.4	597.6	592.3	581.2	583.0	577.3	573.7	574.6
7.5°	599.8	594.9	594.5	584.8	573.7	564.0	552.5	549.8	544.5	538.3	535.7
10°	580.4	576.8	570.2	559.1	545.0	537.0	521.5	512.2	510.9	501.6	498.1
12.5°	560.4	554.3	547.6	532.1	516.2	503.4	491.9	481.7	474.6	466.7	461.4
15°	537.4	529.9	522.4	506.0	487.5	474.6	457.4	442.3	421.6	405.2	395.9
17.5°	512.2	503.8	493.7	475.5	457.4	439.7	407.8	390.1	375.5	365.8	360.1
20°	486.1	476.8	466.7	448.5	417.1	386.2	368.5	354.8	345.9	336.2	329.1
22.5°	458.7	449.0	437.9	409.6	376.4	354.8	341.0	328.2	315.4	310.1	306.5
25°	433.1	424.2	410.0	371.6	345.5	325.6	310.1	301.7	295.0	288.0	281.3
27.5°	406.5	390.1	370.2	337.9	321.6	301.2	290.2	284.0	272.5	267.6	264.5
30°	374.7	356.5	337.5	314.5	295.5	281.3	271.2	261.0	254.3	249.5	244.2
32.5°	342.4	325.1	313.2	289.3	275.1	260.5	250.8	244.6	234.9	231.8	229.6
35°	314.5	299.9	289.3	269.8	256.6	243.3	236.2	226.9	220.7	215.0	211.4
37.5°	287.1	279.1	268.1	251.7	237.5	226.9	217.2	214.1	205.7	202.6	199.1
40°	268.1	256.1	246.8	232.7	220.7	209.2	203.0	196.0	190.2	185.3	184.0
42.5°	245.1	236.2	230.9	215.4	203.0	196.4	188.9	180.9	176.5	172.5	167.6
45°	227.8	219.8	212.3	199.9	188.9	180.5	173.8	168.5	161.0	159.2	151.7
47.5°	209.7	201.7	196.0	183.6	173.4	165.4	160.6	153.5	147.3	143.3	139.8
50°	191.5	184.9	179.6	169.0	160.1	151.7	145.1	138.0	135.4	128.7	126.5
52.5°	174.3	169.9	164.1	153.9	145.1	138.0	130.9	125.2	121.2	117.7	115.0
55°	159.7	152.6	150.0	138.9	131.4	123.9	117.7	114.1	109.3	107.0	104.8
57.5°	143.3	139.3	134.9	126.5	118.1	111.0	106.6	101.3	98.6	96.0	94.2
60°	129.2	123.4	119.9	112.8	105.3	98.6	94.7	90.7	87.1	84.9	81.4
62.5°	112.8	108.4	106.2	98.6	92.4	86.3	82.7	78.7	76.1	72.1	67.7
65°	98.6	95.1	92.4	86.3	80.5	74.8	71.2	66.4	62.8	60.6	60.2
67.5°	86.3	83.6	79.6	73.9	68.1	63.7	59.7	55.7	55.3	54.4	54.4
70°	72.5	69.9	67.7	61.5	56.6	51.8	50.9	49.5	48.2	47.8	46.9
72.5°	60.6	58.4	55.7	50.4	45.6	44.2	43.3	42.5	41.1	40.7	40.3
75°	49.1	46.0	44.2	39.4	38.0	37.2	36.3	34.9	34.1	33.6	32.7
77.5°	37.6	34.5	34.5	31.8	31.0	29.6	28.8	27.9	27.4	26.5	26.5
80°	26.5	26.5	25.7	24.3	23.0	22.6	21.2	20.8	20.3	20.8	19.9
82.5°	19.5	17.7	17.7	16.8	15.9	15.5	14.6	14.6	14.2	14.2	14.2
85°	11.1	11.1	10.6	9.7	9.3	9.3	8.8	8.8	8.4	8.4	8.0
87.5°	4.4	4.0	4.4	4.0	4.0	3.5	3.5	3.5	3.1	3.5	3.1
90°	13.9	15.6	17.4	23.2	31.3	38.3	39.5	38.3	37.2	34.8	37.2
92.5°	48.8	55.2	61.5	92.9	137.0	176.5	178.8	149.8	117.3	99.8	87.1
95°	85.9	99.8	113.8	167.2	268.2	402.8	455.1	398.2	304.2	233.3	184.6
97.5°	116.1	131.8	147.4	215.9	356.4	573.5	741.8	747.6	622.3	496.9	379.6
100°	145.1	161.4	177.6	239.2	380.8	631.6	917.1	1084.3	1059.9	916.0	756.9
102.5°	171.8	188.0	204.3	260.1	382.0	609.5	923.0	1209.7	1346.7	1342.1	1236.4
105°	197.4	213.6	229.9	284.4	387.8	579.3	860.3	1169.1	1410.5	1541.7	1556.8
107.5°	222.9	239.2	255.4	308.8	400.5	563.1	802.2	1083.2	1342.1	1537.1	1650.9
110°	248.4	265.2	282.1	333.2	416.8	558.4	762.7	1003.1	1248.0	1455.8	1604.4

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	272.8	290.2	307.7	356.4	434.2	559.6	737.2	947.3	1162.1	1359.5	1520.8
115°	299.5	315.2	330.9	380.8	451.6	564.2	719.8	903.2	1094.8	1273.6	1425.6
117.5°	323.9	340.2	356.4	402.8	470.2	571.2	710.5	873.0	1039.0	1199.3	1340.9
120°	348.3	364.6	380.8	426.1	488.8	578.2	702.4	849.8	999.6	1143.5	1266.6
122.5°	372.7	389.5	406.3	448.1	505.0	586.3	697.7	830.1	968.2	1097.1	1212.0
125°	395.9	412.2	428.4	470.2	522.4	594.4	691.9	811.5	938.0	1057.6	1159.8
127.5°	416.8	433.6	450.4	491.1	538.7	602.5	688.4	794.1	907.9	1018.1	1115.7
130°	436.5	452.8	469.0	509.7	553.8	611.8	686.1	776.7	878.8	978.7	1070.4
132.5°	455.1	471.4	487.6	525.9	568.9	621.1	685.0	762.7	851.0	941.5	1024.0
135°	471.3	487.6	503.8	541.0	581.6	628.1	683.8	750.0	825.4	902.1	978.7
137.5°	486.4	501.5	516.6	553.8	592.1	635.0	683.8	740.7	804.5	870.7	933.4
140°	499.2	514.3	529.4	564.2	600.2	639.7	682.6	732.6	784.8	840.5	893.9
142.5°	510.8	524.8	538.7	572.3	607.2	643.2	682.6	724.4	768.5	813.8	857.9
145°	523.6	536.4	549.1	580.5	613.0	645.5	680.3	717.5	753.5	791.8	827.8
147.5°	534.0	545.6	557.3	587.4	616.5	646.6	676.8	710.5	741.8	773.2	802.2
150°	544.5	555.0	565.4	592.1	618.8	645.5	673.3	701.2	729.1	754.6	779.0
152.5°	554.9	564.2	573.5	596.7	619.9	643.2	667.5	693.1	716.3	739.5	759.3
155°	564.2	572.9	581.6	601.4	621.1	640.8	660.6	682.6	704.7	723.3	740.7
157.5°	572.3	579.8	587.4	604.9	621.1	636.2	653.6	673.3	690.8	707.0	722.1
160°	580.5	586.8	593.2	607.2	621.1	632.7	646.6	662.9	678.0	690.8	703.5
162.5°	587.4	592.0	596.7	608.3	619.9	629.2	640.8	653.6	665.2	675.7	686.1
165°	592.1	595.6	599.0	609.5	617.6	624.6	632.7	643.2	652.5	660.6	668.7
167.5°	596.7	599.0	601.4	609.5	616.5	619.9	625.7	632.7	639.7	646.6	652.5
170°	599.0	600.8	602.5	608.3	614.1	616.5	619.9	624.6	630.4	633.9	638.5
172.5°	601.4	602.6	603.7	607.2	610.7	611.8	613.0	616.5	619.9	622.3	625.7
175°	602.5	603.1	603.7	606.0	608.3	607.2	608.3	609.5	613.0	614.1	615.3
177.5°	603.7	603.7	603.7	604.9	607.2	604.9	603.7	604.9	607.2	607.2	608.3
180°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	609.1	608.2	605.6	606.4	605.1	605.1	604.2	604.2	604.2	606.4	605.1
5°	575.9	572.8	569.7	568.4	567.1	565.8	565.8	565.3	569.3	568.4	571.9
7.5°	534.8	533.9	527.7	527.7	525.5	524.6	526.8	527.3	527.7	528.6	530.8
10°	498.1	495.9	487.0	487.9	486.6	484.8	486.1	485.2	488.3	489.2	488.3
12.5°	454.7	450.7	441.0	436.1	430.8	426.9	431.7	428.2	440.6	444.1	453.8
15°	397.2	389.7	383.1	383.1	378.2	374.7	376.9	380.9	383.5	387.5	389.3
17.5°	358.7	355.6	350.3	347.2	345.9	344.6	344.6	346.4	352.1	351.7	355.2
20°	326.0	324.2	321.6	317.6	316.3	315.4	315.4	315.4	319.4	322.9	325.1
22.5°	303.4	302.1	300.3	295.0	292.4	291.5	293.7	295.0	298.1	300.8	303.0
25°	280.9	277.8	274.7	272.9	271.6	271.6	272.5	272.9	274.3	275.6	278.2
27.5°	262.3	260.1	255.7	250.8	250.8	249.5	250.4	251.2	254.3	258.8	261.0
30°	241.5	241.1	239.3	237.5	235.8	234.9	236.7	238.0	238.4	240.6	240.6
32.5°	226.5	223.4	220.3	218.5	217.6	217.2	217.6	219.4	219.4	222.1	225.2
35°	211.4	209.7	206.6	203.5	202.6	200.4	202.1	203.9	207.0	208.3	209.7
37.5°	195.1	192.9	191.5	190.6	188.9	189.3	188.0	190.6	193.3	192.9	193.7
40°	182.7	178.7	174.7	174.3	173.8	173.4	173.4	173.8	175.6	177.4	180.0
42.5°	166.8	165.4	161.9	158.4	157.5	156.6	155.7	157.5	161.0	164.1	165.4
45°	150.4	148.6	147.7	145.1	143.3	142.9	142.0	144.2	147.3	148.6	149.5
47.5°	135.4	134.9	132.3	132.7	131.4	131.8	131.4	132.7	132.7	134.0	134.9
50°	125.2	123.9	122.5	121.6	120.3	120.3	119.9	120.3	122.1	123.9	123.4
52.5°	115.0	112.8	112.4	111.9	111.0	111.9	110.6	111.0	112.8	113.7	113.2
55°	103.1	102.6	101.7	100.9	100.4	100.0	100.0	100.0	101.7	103.1	103.5
57.5°	93.8	91.6	89.8	89.8	88.0	87.6	88.5	88.9	90.2	91.1	92.0
60°	80.9	80.1	77.4	76.1	73.4	73.0	73.0	74.8	77.0	80.1	80.9
62.5°	67.2	65.9	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.9	65.9
65°	59.7	60.2	59.7	59.3	59.7	59.7	59.3	59.3	59.3	59.7	60.2
67.5°	53.5	53.1	53.5	53.1	52.6	52.6	52.2	52.6	53.1	53.5	53.5
70°	46.4	46.4	46.0	46.4	46.0	45.6	45.1	45.1	46.0	46.4	46.4
72.5°	39.8	39.8	39.4	39.4	38.5	38.5	38.9	38.5	38.5	39.8	39.8
75°	33.2	32.7	32.3	32.3	31.8	31.8	31.8	31.4	32.3	32.3	32.7
77.5°	26.1	26.1	26.1	25.7	25.7	25.2	25.2	25.7	25.7	25.7	26.1
80°	19.9	19.9	19.9	19.5	19.0	19.0	19.0	19.0	19.0	19.5	19.0
82.5°	13.7	13.7	13.7	13.7	13.7	13.3	13.3	13.3	13.7	13.7	13.3
85°	8.4	8.0	8.4	8.4	8.0	8.4	8.0	8.0	7.5	7.5	8.0
87.5°	3.5	3.1	2.7	2.7	3.1	2.7	2.7	2.7	3.1	2.7	2.7
90°	37.8	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	37.8
92.5°	82.4	77.8	76.6	72.0	73.1	70.8	73.1	72.0	76.6	77.8	82.4
95°	171.8	159.0	144.0	134.7	131.2	132.3	131.2	134.7	144.0	159.0	171.8
97.5°	344.8	310.0	264.7	241.5	228.7	221.7	228.7	241.5	264.7	310.0	344.8
100°	686.7	616.5	520.1	470.2	436.5	415.6	436.5	470.2	520.1	616.5	686.7
102.5°	1161.0	1085.5	978.7	884.6	840.5	810.3	840.5	884.6	978.7	1085.5	1161.0
105°	1537.6	1518.5	1446.5	1374.6	1324.6	1308.4	1324.6	1374.6	1446.5	1518.5	1537.6
107.5°	1674.1	1697.3	1696.1	1685.7	1670.6	1643.9	1670.6	1685.7	1696.1	1697.3	1674.1
110°	1652.0	1699.6	1749.5	1771.6	1782.0	1780.9	1782.0	1771.6	1749.5	1699.6	1652.0

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	1577.1	1633.4	1707.7	1748.4	1770.4	1778.6	1770.4	1748.4	1707.7	1633.4	1577.1
115°	1485.4	1545.2	1627.6	1681.0	1711.2	1721.7	1711.2	1681.0	1627.6	1545.2	1485.4
117.5°	1397.8	1454.7	1539.4	1596.3	1627.6	1635.8	1627.6	1596.3	1539.4	1454.7	1397.8
120°	1319.4	1372.2	1453.5	1508.1	1541.7	1553.3	1541.7	1508.1	1453.5	1372.2	1319.4
122.5°	1258.4	1304.9	1375.7	1429.1	1458.1	1467.4	1458.1	1429.1	1375.7	1304.9	1258.4
125°	1203.4	1246.9	1314.2	1358.3	1387.3	1396.6	1387.3	1358.3	1314.2	1246.9	1203.4
127.5°	1156.3	1196.9	1256.1	1297.9	1323.5	1330.4	1323.5	1297.9	1256.1	1196.9	1156.3
130°	1108.7	1147.0	1203.9	1243.4	1266.6	1275.9	1266.6	1243.4	1203.9	1147.0	1108.7
132.5°	1059.4	1094.8	1150.5	1190.0	1210.9	1219.0	1210.9	1190.0	1150.5	1094.8	1059.4
135°	1011.2	1043.7	1093.6	1131.9	1152.8	1157.5	1152.8	1131.9	1093.6	1043.7	1011.2
137.5°	962.4	991.4	1039.0	1072.7	1091.3	1098.3	1091.3	1072.7	1039.0	991.4	962.4
140°	919.4	945.0	982.2	1012.3	1029.8	1036.7	1029.8	1012.3	982.2	945.0	919.4
142.5°	878.2	898.6	933.4	960.1	975.2	975.2	975.2	960.1	933.4	898.6	878.2
145°	844.6	861.4	889.3	909.0	920.6	924.1	920.6	909.0	889.3	861.4	844.6
147.5°	815.0	827.8	852.1	868.4	876.5	878.8	876.5	868.4	852.1	827.8	815.0
150°	789.4	799.9	817.3	831.2	838.2	839.4	838.2	831.2	817.3	799.9	789.4
152.5°	768.0	776.7	789.4	801.1	805.7	805.7	805.7	801.1	789.4	776.7	768.0
155°	747.1	753.5	766.2	774.3	779.0	776.7	779.0	774.3	766.2	753.5	747.1
157.5°	727.4	732.6	741.8	748.8	751.1	751.1	751.1	748.8	741.8	732.6	727.4
160°	707.6	711.7	719.8	725.6	726.8	726.8	726.8	725.6	719.8	711.7	707.6
162.5°	689.0	691.9	700.0	703.5	704.7	703.5	704.7	703.5	700.0	691.9	689.0
165°	671.0	673.3	678.0	682.6	682.6	681.5	682.6	682.6	678.0	673.3	671.0
167.5°	654.8	657.1	659.4	661.7	661.7	660.6	661.7	661.7	659.4	657.1	654.8
170°	639.6	640.8	642.0	645.5	644.3	642.0	644.3	645.5	642.0	640.8	639.6
172.5°	626.3	626.9	628.1	629.2	628.1	626.9	628.1	629.2	628.1	626.9	626.3
175°	615.9	616.5	616.5	617.6	616.5	614.1	616.5	617.6	616.5	616.5	615.9
177.5°	608.3	608.3	608.3	608.3	607.2	604.9	607.2	608.3	608.3	608.3	608.3
180°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5	636.5
2.5°	606.4	608.7	607.8	602.9	607.8	609.1	611.8	614.4	616.2	618.8	621.0
5°	568.4	572.8	575.5	572.8	581.7	583.0	589.2	592.7	598.0	602.5	606.0
7.5°	532.6	536.1	541.4	542.3	547.6	553.8	562.7	571.5	579.9	584.3	588.3
10°	494.1	500.3	508.2	506.5	514.4	524.2	533.5	547.6	554.7	562.7	569.7
12.5°	455.6	459.6	470.2	473.7	485.2	492.8	505.6	514.4	532.1	541.4	547.6
15°	388.4	404.7	418.0	433.9	449.0	463.1	474.6	490.6	506.0	513.1	523.3
17.5°	357.9	365.4	373.3	381.3	400.8	426.0	446.3	463.6	476.8	486.1	498.1
20°	326.0	333.5	342.4	349.9	361.8	380.0	405.2	434.8	450.7	460.5	472.0
22.5°	303.4	310.5	316.3	322.9	332.2	345.5	364.5	401.2	422.4	434.4	444.6
25°	279.1	288.0	294.2	299.0	306.5	321.1	336.6	357.4	395.5	404.7	418.9
27.5°	262.3	265.0	272.0	279.6	287.1	295.0	311.0	328.7	354.3	374.7	391.9
30°	242.4	249.0	255.7	258.8	265.4	276.9	286.6	305.7	325.6	341.5	362.3
32.5°	227.4	231.3	235.8	243.3	249.5	257.4	267.2	283.1	299.9	310.1	326.0
35°	210.6	213.2	222.5	225.6	231.8	239.7	249.5	261.9	280.0	288.0	299.5
37.5°	194.6	200.8	203.5	210.6	216.3	224.3	231.3	245.5	257.4	266.7	277.3
40°	182.2	184.9	189.8	196.0	200.8	207.0	215.9	226.0	238.9	246.4	255.7
42.5°	167.2	169.4	175.6	179.1	187.1	192.9	198.2	210.6	222.1	227.8	237.1
45°	150.8	156.1	160.1	167.2	171.6	178.7	185.3	194.2	204.8	211.4	216.7
47.5°	136.7	142.0	146.0	152.6	159.7	162.8	169.9	179.1	188.9	194.2	201.7
50°	125.2	127.0	134.5	137.6	145.1	151.3	156.1	164.1	174.7	177.8	184.0
52.5°	114.1	115.5	120.3	124.3	130.9	136.2	142.4	150.0	158.8	163.7	168.5
55°	104.4	105.3	107.5	111.9	116.3	123.0	128.7	135.8	143.3	148.6	153.0
57.5°	93.3	95.1	96.9	99.5	104.0	110.1	116.3	123.0	129.2	132.7	138.5
60°	80.5	83.2	86.3	89.4	92.4	96.9	104.0	110.1	115.9	119.0	123.4
62.5°	66.8	72.1	74.8	78.3	80.9	84.9	90.2	97.3	101.3	105.3	108.8
65°	60.2	60.6	61.0	64.6	69.4	73.4	78.3	83.6	89.8	92.4	95.1
67.5°	53.5	54.0	54.9	55.3	57.1	61.5	66.8	72.5	77.4	79.2	81.8
70°	46.9	46.9	48.7	49.1	49.5	50.0	54.4	60.2	64.6	66.8	69.9
72.5°	39.8	40.3	41.1	41.6	42.5	43.3	44.7	47.8	53.1	55.3	58.8
75°	32.7	33.2	33.6	34.1	35.4	35.8	37.2	38.9	41.1	43.8	46.0
77.5°	26.1	26.1	26.5	27.4	28.3	28.8	30.1	31.0	31.8	33.2	34.9
80°	19.5	19.9	19.9	20.8	20.8	21.2	21.7	23.0	23.9	24.8	25.7
82.5°	13.3	14.2	14.2	14.2	14.6	15.0	15.5	15.5	16.4	16.8	18.1
85°	8.0	8.4	8.4	8.4	8.0	8.8	8.8	9.3	9.3	9.3	9.7
87.5°	3.1	2.7	3.1	3.1	3.1	3.5	3.1	3.1	3.5	4.0	4.0
90°	37.2	34.8	37.2	38.3	39.5	38.3	31.3	23.2	17.4	15.6	13.9
92.5°	87.1	99.8	117.3	149.8	178.8	176.5	137.0	92.9	61.5	55.2	48.8
95°	184.6	233.3	304.2	398.2	455.1	402.8	268.2	167.2	113.8	99.8	85.9
97.5°	379.6	496.9	622.3	747.6	741.8	573.5	356.4	215.9	147.4	131.8	116.1
100°	756.9	916.0	1059.9	1084.3	917.1	631.6	380.8	239.2	177.6	161.4	145.1
102.5°	1236.4	1342.1	1346.7	1209.7	923.0	609.5	382.0	260.1	204.3	188.0	171.8
105°	1556.8	1541.7	1410.5	1169.1	860.3	579.3	387.8	284.4	229.9	213.6	197.4
107.5°	1650.9	1537.1	1342.1	1083.2	802.2	563.1	400.5	308.8	255.4	239.2	222.9
110°	1604.4	1455.8	1248.0	1003.1	762.7	558.4	416.8	333.2	282.1	265.2	248.4

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	1520.8	1359.5	1162.1	947.3	737.2	559.6	434.2	356.4	307.7	290.2	272.8
115°	1425.6	1273.6	1094.8	903.2	719.8	564.2	451.6	380.8	330.9	315.2	299.5
117.5°	1340.9	1199.3	1039.0	873.0	710.5	571.2	470.2	402.8	356.4	340.2	323.9
120°	1266.6	1143.5	999.6	849.8	702.4	578.2	488.8	426.1	380.8	364.6	348.3
122.5°	1212.0	1097.1	968.2	830.1	697.7	586.3	505.0	448.1	406.3	389.5	372.7
125°	1159.8	1057.6	938.0	811.5	691.9	594.4	522.4	470.2	428.4	412.2	395.9
127.5°	1115.7	1018.1	907.9	794.1	688.4	602.5	538.7	491.1	450.4	433.6	416.8
130°	1070.4	978.7	878.8	776.7	686.1	611.8	553.8	509.7	469.0	452.8	436.5
132.5°	1024.0	941.5	851.0	762.7	685.0	621.1	568.9	525.9	487.6	471.4	455.1
135°	978.7	902.1	825.4	750.0	683.8	628.1	581.6	541.0	503.8	487.6	471.3
137.5°	933.4	870.7	804.5	740.7	683.8	635.0	592.1	553.8	516.6	501.5	486.4
140°	893.9	840.5	784.8	732.6	682.6	639.7	600.2	564.2	529.4	514.3	499.2
142.5°	857.9	813.8	768.5	724.4	682.6	643.2	607.2	572.3	538.7	524.8	510.8
145°	827.8	791.8	753.5	717.5	680.3	645.5	613.0	580.5	549.1	536.4	523.6
147.5°	802.2	773.2	741.8	710.5	676.8	646.6	616.5	587.4	557.3	545.6	534.0
150°	779.0	754.6	729.1	701.2	673.3	645.5	618.8	592.1	565.4	555.0	544.5
152.5°	759.3	739.5	716.3	693.1	667.5	643.2	619.9	596.7	573.5	564.2	554.9
155°	740.7	723.3	704.7	682.6	660.6	640.8	621.1	601.4	581.6	572.9	564.2
157.5°	722.1	707.0	690.8	673.3	653.6	636.2	621.1	604.9	587.4	579.8	572.3
160°	703.5	690.8	678.0	662.9	646.6	632.7	621.1	607.2	593.2	586.8	580.5
162.5°	686.1	675.7	665.2	653.6	640.8	629.2	619.9	608.3	596.7	592.0	587.4
165°	668.7	660.6	652.5	643.2	632.7	624.6	617.6	609.5	599.0	595.6	592.1
167.5°	652.5	646.6	639.7	632.7	625.7	619.9	616.5	609.5	601.4	599.0	596.7
170°	638.5	633.9	630.4	624.6	619.9	616.5	614.1	608.3	602.5	600.8	599.0
172.5°	625.7	622.3	619.9	616.5	613.0	611.8	610.7	607.2	603.7	602.6	601.4
175°	615.3	614.1	613.0	609.5	608.3	607.2	608.3	606.0	603.7	603.1	602.5
177.5°	608.3	607.2	607.2	604.9	603.7	604.9	607.2	604.9	603.7	603.7	603.7
180°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	636.5	636.5	636.5	636.5
2.5°	625.0	623.7	631.7	640.5
5°	612.2	614.4	624.6	637.0
7.5°	598.9	603.8	615.7	632.1
10°	580.4	589.2	607.3	624.1
12.5°	562.2	574.2	591.4	611.3
15°	541.9	555.1	576.4	600.3
17.5°	519.3	534.3	559.1	585.2
20°	495.4	515.3	541.4	569.7
22.5°	468.9	492.8	519.8	551.2
25°	443.2	469.3	496.3	532.6
27.5°	418.0	443.7	473.7	510.5
30°	392.8	416.2	448.5	487.9
32.5°	365.8	390.1	424.2	464.5
35°	341.0	365.4	397.2	437.0
37.5°	314.5	340.6	371.1	412.3
40°	283.5	314.1	343.7	383.1
42.5°	257.9	290.2	318.9	356.1
45°	237.5	268.1	291.9	328.2
47.5°	218.5	243.3	267.6	301.2
50°	200.4	219.4	244.6	274.7
52.5°	181.8	198.2	219.8	248.2
55°	165.0	180.5	199.9	221.6
57.5°	149.5	160.6	180.0	199.5
60°	132.3	143.8	158.8	175.2
62.5°	117.7	126.5	140.7	154.4
65°	102.2	110.6	121.2	134.0
67.5°	88.0	95.5	104.0	114.1
70°	75.2	80.9	87.1	96.0
72.5°	61.5	67.7	73.4	80.5
75°	50.4	53.1	57.9	62.8
77.5°	38.9	42.5	45.1	49.1
80°	27.9	31.0	31.8	34.9
82.5°	18.6	20.3	22.1	23.0
85°	10.6	11.5	13.3	13.7
87.5°	4.0	4.4	5.3	6.2
90°	11.6	9.3	4.6	1.2
92.5°	39.5	33.7	24.4	17.4
95°	67.3	56.9	45.3	40.6
97.5°	95.2	80.1	67.3	60.4
100°	121.9	103.3	92.9	89.4
102.5°	147.4	128.9	118.4	116.1
105°	171.8	154.4	146.3	141.6
107.5°	197.4	181.1	173.0	169.5
110°	224.1	209.0	202.0	197.4

TEST NUMBER: P999485

CATALOG NUMBER: SA2XXRDIP-B290D1080UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	249.6	235.7	227.5	222.9
115°	276.3	262.4	255.4	249.6
117.5°	301.8	289.1	282.1	277.5
120°	325.1	314.6	307.7	303.0
122.5°	349.4	337.8	330.9	327.4
125°	372.7	358.7	351.8	348.3
127.5°	394.7	379.6	370.3	365.7
130°	413.3	397.0	385.4	380.8
132.5°	430.7	413.3	400.5	394.7
135°	444.6	427.2	413.3	408.7
137.5°	459.7	441.2	427.2	421.4
140°	473.7	455.1	441.2	436.5
142.5°	486.4	467.9	455.1	451.6
145°	500.4	483.0	471.3	466.7
147.5°	514.3	498.0	486.4	483.0
150°	527.1	512.0	502.7	499.2
152.5°	538.7	525.9	516.6	515.5
155°	551.4	538.7	531.7	530.6
157.5°	561.9	550.3	544.5	543.3
160°	571.2	561.9	557.3	556.1
162.5°	579.3	572.3	567.7	568.9
165°	586.3	579.3	577.0	578.2
167.5°	592.1	587.4	585.1	586.3
170°	596.7	593.2	592.1	594.4
172.5°	600.2	596.7	597.9	599.0
175°	602.5	600.2	601.4	602.5
177.5°	603.7	601.4	602.5	604.9
180°	603.7	603.7	603.7	603.7

(END OF REPORT)