

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P998362

Luminaire Tested: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998362
REPORT IS A COMBINATION OF REPORTS P984102 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

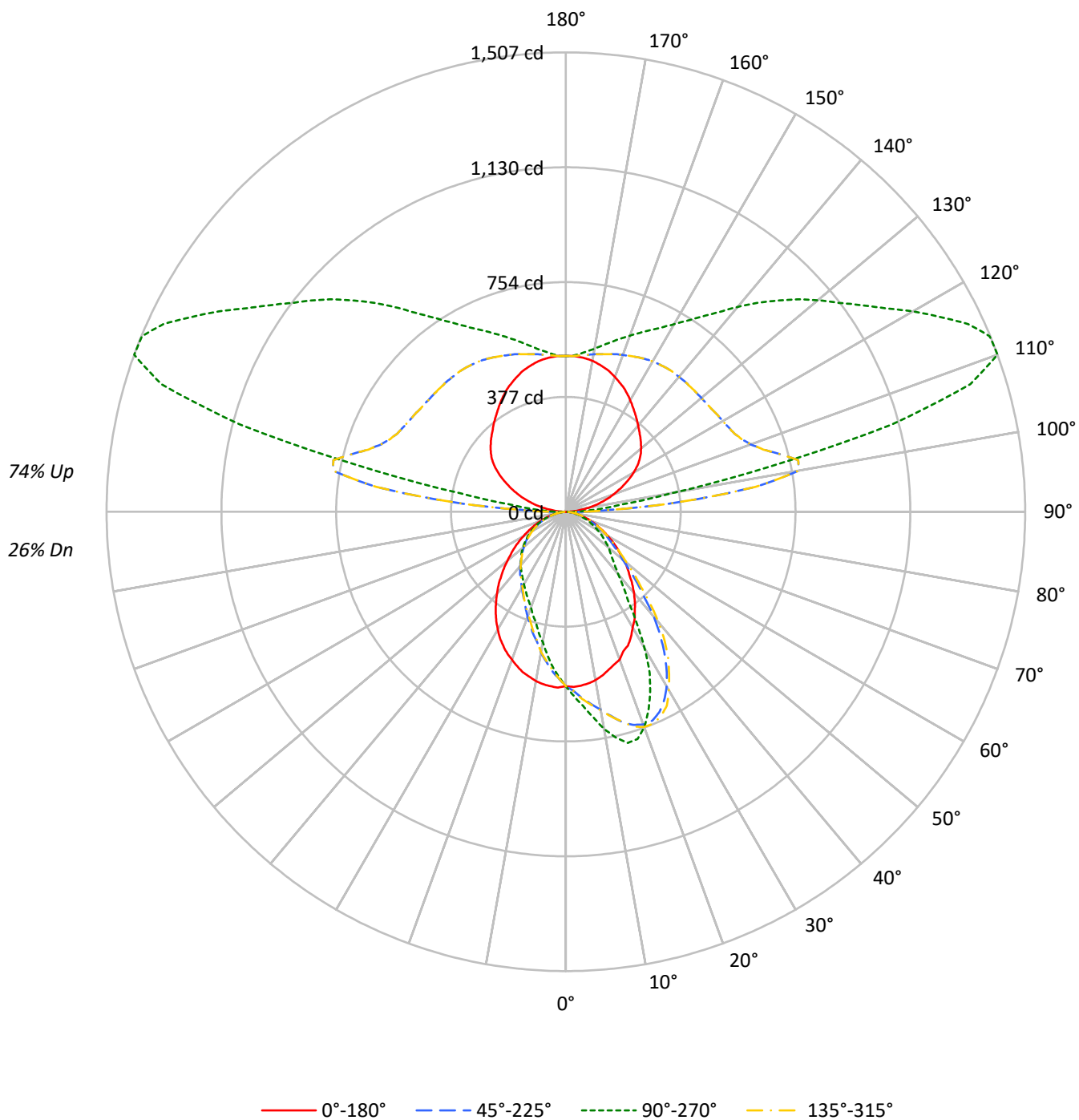
Lumens per Lamp: N/A
Luminaire Lumens: 4823.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	29
2	85	78	72	67	75	70	65	61	54	51	48	40	38	36	27	26	25
3	77	68	62	56	69	61	56	51	48	44	41	36	33	31	24	23	22
4	71	61	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17
6	60	48	41	35	53	44	37	32	34	30	26	26	23	20	18	16	15
7	55	44	36	31	49	39	33	28	31	26	23	24	20	18	17	15	13
8	51	39	32	27	46	36	29	25	28	24	20	22	18	16	15	13	12
9	48	36	29	24	42	33	26	22	26	21	18	20	17	14	14	12	11
10	44	33	26	21	40	30	24	20	24	19	16	18	15	13	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9054	9054	9054	9054
5°	9075	9654	9110	7680
10°	8971	10539	9027	6332
15°	8753	11116	8875	5334
20°	8617	10438	8617	4636
25°	8342	8967	8380	4146
30°	7890	7049	8041	3755
35°	7490	4874	7616	3435
40°	7029	3680	7110	3181
45°	6462	3025	6567	2906
50°	5971	2654	5983	2661
55°	5412	2262	5446	2394
60°	4816	1890	4882	2089
65°	4284	1537	4362	1784
70°	3750	1205	3846	1438
75°	3149	875	3273	1043
80°	2459	555	2635	620
85°	1610	280	1737	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.1
10°-20°	158.6	3.3
20°-30°	230.1	4.8
30°-40°	242.6	5.0
40°-50°	214.7	4.5
50°-60°	171.4	3.6
60°-70°	116.4	2.4
70°-80°	59.6	1.2
80°-90°	17.4	0.4
90°-100°	199.1	4.1
100°-110°	701.3	14.5
110°-120°	736.6	15.3
120°-130°	606.0	12.6
130°-140°	486.8	10.1
140°-150°	367.7	7.6
150°-160°	258.5	5.4
160°-170°	152.2	3.2
170°-180°	49.5	1.0
0°-30°	443.2	9.2
0°-40°	685.8	14.2
0°-60°	1071.9	22.2
0°-90°	1265.3	26.2
90°-120°	1637.0	33.9
90°-150°	3097.5	64.2
90°-180°	3558.0	73.8
0°-180°	4823.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	572	572	572	572	572	
5°	572	639	575	508	572	54
15°	538	785	545	377	538	152
25°	483	654	485	302	483	221
35°	394	356	401	251	394	247
45°	296	215	301	206	296	230
55°	203	151	204	160	203	181
65°	120	93	123	108	120	120
75°	56	46	58	54	56	60
85°	11	12	12	9	11	13
90°	1	32	1	32	1	3
95°	34	112	34	112	34	36
105°	120	1107	120	1107	120	127
115°	211	1457	211	1457	211	209
125°	295	1182	295	1182	295	262
135°	346	980	346	980	346	267
145°	395	782	395	782	395	248
155°	449	657	449	657	449	207
165°	489	577	489	577	489	138
175°	510	520	510	520	510	48
180°	511	511	511	511	511	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	575.1	576.4	578.6	579.0	583.4	586.9	590.9	590.9	592.2	591.8	588.3
5°	572.4	576.4	582.1	586.9	594.9	598.4	603.7	607.6	611.1	613.8	613.3
7.5°	568.0	575.1	583.4	592.7	603.2	609.4	616.8	623.9	628.7	633.1	636.2
10°	560.6	572.4	583.9	596.2	609.8	618.2	627.0	636.2	643.7	652.0	659.9
12.5°	550.5	567.6	581.7	597.9	614.6	623.9	637.9	645.0	659.5	680.6	686.3
15°	537.7	561.0	574.2	594.9	616.8	624.3	643.7	655.1	685.0	698.2	714.0
17.5°	525.8	551.8	569.4	593.1	614.6	629.2	648.1	671.4	696.4	715.3	732.9
20°	516.2	541.2	562.3	588.7	616.0	634.4	654.2	682.4	709.6	729.0	742.6
22.5°	494.2	526.3	550.9	580.4	613.3	638.8	657.7	688.5	718.0	729.8	741.7
25°	483.2	510.9	539.5	572.9	611.6	641.9	658.2	692.5	718.4	722.8	725.4
27.5°	463.0	494.2	527.6	565.8	611.1	636.6	657.3	688.5	709.2	706.1	698.2
30°	437.9	476.2	513.1	554.4	605.0	632.7	652.0	680.6	691.1	675.3	661.2
32.5°	419.4	455.5	496.4	544.3	597.9	624.3	643.2	665.6	667.8	639.3	615.5
35°	394.4	434.4	480.5	531.1	586.1	609.8	627.4	641.0	630.5	590.5	562.3
37.5°	372.0	411.5	460.8	512.2	569.8	593.1	607.2	609.4	583.4	548.3	506.9
40°	347.3	388.2	439.7	493.7	551.8	572.0	580.8	574.2	536.8	495.9	448.0
42.5°	322.7	363.2	418.6	474.0	528.9	546.1	549.6	531.5	485.8	437.9	382.5
45°	295.9	338.1	393.5	449.3	502.5	512.2	512.6	486.7	432.6	382.5	331.1
47.5°	273.9	313.0	368.0	423.8	468.7	475.3	472.6	442.7	383.8	327.5	282.7
50°	249.7	287.1	341.6	396.6	434.8	436.6	430.0	387.3	329.7	278.3	242.7
52.5°	223.8	261.6	311.7	364.5	398.8	396.1	383.4	337.7	283.6	240.9	213.7
55°	203.1	236.5	283.6	335.0	359.2	351.7	337.7	291.1	248.4	212.4	188.6
57.5°	180.3	209.7	255.9	300.7	314.8	307.8	293.7	250.2	210.6	183.3	167.5
60°	158.7	185.5	226.0	263.4	274.3	266.9	250.6	211.5	182.9	160.0	148.2
62.5°	138.9	162.2	196.1	230.4	234.8	227.3	213.2	181.6	157.0	138.9	130.1
65°	120.5	142.4	169.7	195.6	199.6	191.7	177.2	154.3	133.7	122.2	113.9
67.5°	102.4	120.0	144.2	163.1	165.3	157.8	146.0	127.5	114.8	102.4	96.3
70°	86.6	99.8	118.7	134.1	135.0	127.9	121.8	105.1	95.4	86.6	81.8
72.5°	71.2	80.5	95.0	106.4	106.8	102.4	96.7	86.2	77.8	71.7	66.8
75°	56.3	64.2	73.0	83.1	82.7	79.1	74.7	68.1	61.1	57.2	55.0
77.5°	43.1	47.9	55.0	61.6	61.6	59.8	57.2	52.3	47.9	44.0	41.8
80°	30.8	33.9	39.6	41.8	42.6	42.2	40.0	36.5	34.7	31.7	30.8
82.5°	19.8	22.0	24.6	26.8	28.1	27.3	26.8	25.1	22.4	21.5	20.7
85°	11.4	12.3	13.6	14.9	15.4	14.9	15.8	14.5	13.2	13.2	12.8
87.5°	4.8	5.3	6.2	6.2	6.6	6.6	6.2	6.6	6.6	6.2	5.7
90°	1.0	3.9	7.9	9.8	11.8	13.2	14.7	19.6	26.5	32.4	33.4
92.5°	14.7	20.6	28.5	33.4	41.3	46.7	52.1	78.6	115.9	149.3	151.3
95°	34.4	38.3	48.1	57.0	72.7	84.5	96.3	141.5	226.9	340.9	385.1
97.5°	51.1	57.0	67.8	80.6	98.2	111.5	124.8	182.7	301.6	485.3	627.8
100°	75.6	78.6	87.4	103.2	122.8	136.6	150.3	202.4	322.2	534.4	776.1
102.5°	98.2	100.2	109.1	124.8	145.4	159.2	172.9	220.1	323.2	515.8	781.0
105°	119.9	123.8	130.7	145.4	167.0	180.8	194.5	240.7	328.1	490.2	728.0
107.5°	143.4	146.4	153.3	167.0	188.6	202.4	216.1	261.3	338.9	476.5	678.9
110°	167.0	170.9	176.8	189.6	210.2	224.4	238.7	282.0	352.7	472.6	645.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	188.6	192.6	199.4	211.2	230.9	245.6	260.3	301.6	367.4	473.5	623.9
115°	211.2	216.1	222.0	233.8	253.5	266.8	280.0	322.2	382.2	477.5	609.1
117.5°	234.8	238.7	244.6	255.4	274.1	287.8	301.6	340.9	397.9	483.4	601.3
120°	256.4	260.3	266.2	275.1	294.7	308.4	322.2	360.6	413.6	489.3	594.4
122.5°	277.0	280.0	285.9	295.7	315.4	329.6	343.9	379.2	427.4	496.1	590.4
125°	294.7	297.7	303.6	315.4	335.0	348.8	362.5	397.9	442.1	503.0	585.5
127.5°	309.5	313.4	321.3	334.0	352.7	367.0	381.2	415.6	455.9	509.9	582.6
130°	322.2	326.2	336.0	349.7	369.4	383.2	396.9	431.3	468.6	517.7	580.6
132.5°	334.0	338.9	349.7	364.5	385.1	398.8	412.6	445.0	481.4	525.6	579.6
135°	345.8	349.7	361.5	376.3	398.9	412.6	426.4	457.8	492.2	531.5	578.7
137.5°	356.6	361.5	373.3	389.0	411.6	424.4	437.2	468.6	501.0	537.4	578.7
140°	369.4	373.3	385.1	400.8	422.5	435.2	448.0	477.5	507.9	541.3	577.7
142.5°	382.2	385.1	395.9	411.6	432.3	444.1	455.9	484.3	513.8	544.3	577.7
145°	394.9	398.9	408.7	423.4	443.1	453.9	464.7	491.2	518.7	546.2	575.7
147.5°	408.7	411.6	421.5	435.2	451.9	461.8	471.6	497.1	521.7	547.2	572.8
150°	422.5	425.4	433.3	446.0	460.8	469.6	478.5	501.0	523.6	546.2	569.8
152.5°	436.2	437.2	445.0	455.9	469.6	477.4	485.3	505.0	524.6	544.3	564.9
155°	449.0	450.0	455.9	466.7	477.5	484.8	492.2	508.9	525.6	542.3	559.0
157.5°	459.8	460.8	465.7	475.5	484.3	490.7	497.1	511.9	525.6	538.4	553.1
160°	470.6	471.6	475.5	483.4	491.2	496.6	502.0	513.8	525.6	535.4	547.2
162.5°	481.4	480.4	484.3	490.2	497.1	501.0	505.0	514.8	524.6	532.5	542.3
165°	489.3	488.3	490.2	496.1	501.0	504.0	506.9	515.8	522.7	528.6	535.4
167.5°	496.1	495.2	497.1	501.0	505.0	507.0	508.9	515.8	521.7	524.6	529.5
170°	503.0	501.0	502.0	505.0	506.9	508.4	509.9	514.8	519.7	521.7	524.6
172.5°	506.9	506.0	505.0	507.9	508.9	509.9	510.9	513.8	516.8	517.7	518.7
175°	509.9	508.9	507.9	509.9	509.9	510.4	510.9	512.8	514.8	513.8	514.8
177.5°	511.9	509.9	508.9	510.9	510.9	510.9	510.9	511.9	513.8	511.9	510.9
180°	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	594.4	594.9	595.7	600.1	602.3	602.8	601.0	605.0	606.3	605.0	604.1
5°	622.6	625.2	630.5	636.2	635.7	636.2	638.8	641.5	642.3	638.8	640.1
7.5°	647.2	652.5	658.2	667.0	667.0	671.4	673.1	675.3	680.6	678.0	677.1
10°	675.3	682.4	692.9	707.0	707.4	711.8	716.2	723.2	725.4	723.7	724.6
12.5°	710.5	724.1	725.0	740.4	747.4	748.3	755.3	754.0	758.4	758.4	765.9
15°	725.9	747.0	758.9	773.8	778.2	772.9	778.6	784.8	785.2	785.2	784.8
17.5°	753.6	761.9	773.8	781.7	783.5	783.5	783.9	786.6	784.8	781.3	783.9
20°	759.3	762.8	767.2	766.3	767.2	762.8	758.4	754.0	754.5	752.3	758.9
22.5°	748.7	747.9	737.7	731.2	731.2	722.4	714.0	710.1	706.1	707.4	709.6
25°	722.4	708.7	696.4	686.7	684.6	670.5	659.0	655.5	648.9	654.2	655.1
27.5°	680.2	664.8	645.0	636.6	625.2	619.5	611.6	601.0	587.4	595.3	594.0
30°	634.9	612.0	595.7	575.5	557.5	556.2	541.2	523.6	516.6	516.6	520.6
32.5°	584.3	554.0	530.2	501.7	484.1	476.6	458.6	441.0	444.9	431.7	436.6
35°	525.4	485.4	455.5	427.8	414.6	405.8	382.5	372.8	362.3	356.1	367.6
37.5°	469.1	423.0	384.7	354.4	349.5	333.7	317.9	311.7	305.6	308.2	307.8
40°	400.5	359.6	325.3	301.6	293.3	285.8	275.2	267.8	263.8	266.0	266.4
42.5°	338.5	304.2	278.7	262.0	255.0	249.7	244.5	238.3	237.0	237.0	238.7
45°	290.6	262.5	245.3	231.7	227.7	223.8	219.8	217.2	216.3	214.6	215.9
47.5°	252.4	229.9	219.4	209.3	204.9	204.0	200.5	199.2	197.4	197.0	197.4
50°	220.3	206.2	196.5	190.8	187.7	186.4	184.7	182.0	181.1	183.3	182.5
52.5°	197.8	184.7	179.4	173.7	171.9	170.1	167.5	167.9	167.5	166.6	166.6
55°	175.4	167.1	161.8	157.4	157.0	155.2	153.0	152.1	151.7	150.8	152.1
57.5°	157.4	150.8	146.0	142.0	140.3	140.3	138.1	136.3	136.3	135.9	136.3
60°	139.4	132.8	129.7	125.7	124.4	124.0	122.7	121.8	120.5	120.5	120.5
62.5°	122.7	117.4	113.9	110.4	110.8	108.6	106.8	106.0	106.0	106.4	106.4
65°	106.8	103.3	98.9	95.8	95.0	94.5	93.6	93.2	91.9	92.8	92.8
67.5°	92.3	87.5	84.9	83.5	82.2	81.8	80.9	80.0	79.6	79.1	80.0
70°	77.8	73.9	71.7	70.8	69.5	69.0	68.6	67.3	67.7	68.1	68.6
72.5°	64.6	61.1	60.7	58.0	58.0	58.0	56.3	57.2	56.7	55.8	56.7
75°	51.0	49.2	48.4	47.0	47.5	47.0	46.6	45.3	45.3	45.7	46.2
77.5°	40.4	38.7	38.3	36.9	36.1	36.9	36.1	35.6	35.6	36.1	36.1
80°	29.9	29.0	27.7	27.7	27.7	27.3	27.3	27.3	26.8	26.4	26.8
82.5°	19.8	19.8	19.3	18.9	19.3	18.5	18.9	18.9	18.9	18.9	18.9
85°	12.8	12.3	12.3	11.9	11.9	11.9	12.3	11.4	11.4	11.9	11.9
87.5°	5.7	5.7	5.7	6.2	5.7	5.7	5.7	6.2	5.7	5.7	5.7
90°	32.4	31.4	29.5	31.4	31.9	32.4	32.4	32.4	32.4	32.4	32.4
92.5°	126.7	99.2	84.5	73.7	69.8	65.8	64.8	60.9	61.9	59.9	61.9
95°	337.0	257.4	197.5	156.2	145.4	134.6	121.8	114.0	111.0	112.0	111.0
97.5°	632.7	526.6	420.5	321.3	291.8	262.3	224.0	204.3	193.5	187.6	193.5
100°	917.6	897.0	775.1	640.6	581.2	521.7	440.1	397.9	369.4	351.7	369.4
102.5°	1023.7	1139.6	1135.7	1046.3	982.4	918.6	828.2	748.6	711.3	685.7	711.3
105°	989.3	1193.7	1304.7	1317.5	1301.2	1285.0	1224.1	1163.2	1121.0	1107.2	1121.0
107.5°	916.6	1135.7	1300.8	1397.0	1416.6	1436.3	1435.4	1426.5	1413.7	1391.1	1413.7
110°	848.8	1056.1	1232.0	1357.7	1398.0	1438.3	1480.5	1499.2	1508.1	1507.1	1508.1

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	801.7	983.4	1150.4	1287.0	1334.6	1382.3	1445.2	1479.6	1498.2	1505.1	1498.2
115°	764.3	926.4	1077.7	1206.4	1257.0	1307.6	1377.4	1422.6	1448.1	1457.0	1448.1
117.5°	738.8	879.3	1014.9	1134.7	1182.8	1231.0	1302.7	1350.9	1377.4	1384.3	1377.4
120°	719.1	845.9	967.7	1071.8	1116.5	1161.2	1230.0	1276.2	1304.7	1314.5	1304.7
122.5°	702.4	819.4	928.4	1025.7	1065.0	1104.3	1164.2	1209.4	1233.9	1241.8	1233.9
125°	686.7	793.8	895.0	981.5	1018.3	1055.1	1112.1	1149.5	1174.0	1181.9	1174.0
127.5°	672.0	768.3	861.6	944.1	978.5	1012.9	1063.0	1098.4	1120.0	1125.9	1120.0
130°	657.3	743.7	828.2	905.8	938.2	970.7	1018.8	1052.2	1071.8	1079.7	1071.8
132.5°	645.5	720.1	796.8	866.5	896.4	926.4	973.6	1007.0	1024.7	1031.6	1024.7
135°	634.7	698.5	763.4	828.2	855.7	883.2	925.5	957.9	975.6	979.5	975.6
137.5°	626.8	680.8	736.8	789.9	814.4	839.0	879.3	907.8	923.5	929.4	923.5
140°	619.9	664.1	711.3	756.5	778.1	799.7	831.1	856.7	871.4	877.3	871.4
142.5°	613.0	650.4	688.7	726.0	743.2	760.4	789.9	812.5	825.3	825.3	825.3
145°	607.2	637.6	670.0	700.5	714.8	729.0	752.6	769.3	779.1	782.0	779.1
147.5°	601.3	627.8	654.3	678.9	689.7	700.5	721.1	734.9	741.7	743.7	741.7
150°	593.4	617.0	638.6	659.2	668.0	676.9	691.6	703.4	709.3	710.3	709.3
152.5°	586.5	606.2	625.8	642.5	649.9	657.3	668.1	677.9	681.8	681.8	681.8
155°	577.7	596.3	612.1	626.8	632.2	637.6	648.4	655.3	659.2	657.3	659.2
157.5°	569.8	584.6	598.3	611.1	615.5	619.9	627.8	633.7	635.6	635.6	635.6
160°	561.0	573.7	584.6	595.4	598.8	602.2	609.1	614.0	615.0	615.0	615.0
162.5°	553.1	562.9	571.8	580.6	583.0	585.5	592.4	595.4	596.3	595.4	596.3
165°	544.3	552.1	559.0	565.9	567.8	569.8	573.7	577.7	577.7	576.7	577.7
167.5°	535.4	541.3	547.2	552.1	554.1	556.1	558.0	560.0	560.0	559.0	560.0
170°	528.6	533.5	536.4	540.3	541.3	542.3	543.3	546.2	545.3	543.3	545.3
172.5°	521.7	524.6	526.6	529.5	530.0	530.5	531.5	532.5	531.5	530.5	531.5
175°	515.8	518.7	519.7	520.7	521.2	521.7	521.7	522.7	521.7	519.7	521.7
177.5°	511.9	513.8	513.8	514.8	514.8	514.8	514.8	514.8	513.8	511.9	513.8
180°	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	606.3	603.2	600.6	601.0	603.2	601.5	597.1	591.3	589.1	586.5	589.1
5°	642.8	640.1	634.9	635.3	634.0	632.2	625.2	616.4	616.4	609.4	608.5
7.5°	678.8	674.9	671.4	670.5	665.6	662.1	656.0	643.7	638.8	630.5	625.6
10°	719.3	716.2	712.2	707.4	704.8	698.6	688.5	670.5	661.7	650.3	641.9
12.5°	760.2	759.7	750.9	741.3	740.8	731.2	724.1	699.9	688.1	672.7	652.9
15°	786.1	783.9	779.1	774.2	775.6	765.0	749.2	720.6	712.7	694.2	673.1
17.5°	785.7	785.7	784.4	783.5	782.2	779.1	770.3	751.4	738.6	715.3	695.5
20°	760.6	766.3	767.6	767.2	771.6	773.8	773.4	761.5	751.4	730.7	710.5
22.5°	710.5	723.7	729.4	732.9	742.1	747.0	758.4	754.0	751.4	736.0	718.8
25°	663.9	668.3	685.4	686.3	699.1	710.9	722.4	729.8	739.5	733.8	719.3
27.5°	603.7	613.8	626.1	635.3	637.9	662.1	681.0	695.1	717.1	718.8	714.0
30°	535.5	540.3	560.6	572.9	586.9	604.5	631.8	656.0	675.8	693.8	699.9
32.5°	452.4	472.2	484.1	499.0	511.3	542.5	576.0	607.2	630.0	660.4	673.6
35°	376.3	391.7	412.0	418.1	440.5	466.9	510.4	550.5	585.2	616.0	642.8
37.5°	313.5	325.8	347.3	357.0	370.2	404.0	440.5	490.2	532.0	569.8	603.2
40°	270.4	279.6	295.9	299.0	310.0	340.7	370.2	416.8	472.2	523.2	559.7
42.5°	240.9	245.3	256.3	260.3	267.3	288.0	314.4	358.3	409.8	462.5	514.0
45°	219.8	222.9	229.5	233.0	241.8	251.0	272.6	307.8	348.2	401.4	456.8
47.5°	200.9	204.9	207.5	209.7	214.6	224.7	238.7	264.7	303.4	352.2	405.8
50°	185.1	186.4	191.3	191.7	194.8	201.4	214.6	230.4	261.2	300.7	352.6
52.5°	169.3	170.6	173.7	176.7	178.1	183.3	192.1	205.3	228.2	259.4	305.6
55°	153.4	155.2	158.3	160.5	161.8	166.2	171.5	184.2	202.2	224.2	262.0
57.5°	137.6	141.6	142.4	143.8	146.0	150.8	155.6	163.1	177.2	197.4	225.1
60°	122.7	124.0	127.1	128.4	130.6	133.2	139.4	145.1	155.2	171.0	196.1
62.5°	107.3	110.4	111.7	113.0	114.8	117.8	121.8	127.9	136.7	149.5	169.3
65°	94.1	94.5	97.2	98.9	100.7	102.9	106.8	112.6	117.8	129.7	144.2
67.5°	81.3	82.2	83.1	84.9	87.1	89.3	92.8	95.8	102.4	110.4	121.8
70°	69.0	69.0	71.2	72.5	72.1	74.7	77.4	80.9	85.7	93.2	102.4
72.5°	58.0	57.6	59.4	59.8	60.7	62.4	64.2	67.7	70.3	76.1	83.1
75°	46.2	47.0	47.9	47.9	49.2	50.6	52.3	54.1	57.2	60.7	65.9
77.5°	36.5	36.5	37.4	37.8	39.1	38.7	40.4	42.2	44.4	47.5	51.4
80°	26.8	27.7	27.7	27.7	28.1	28.6	30.3	31.7	33.0	35.2	36.9
82.5°	18.9	18.9	19.8	19.8	19.8	20.7	20.7	21.1	22.0	23.3	24.6
85°	11.9	11.9	11.9	12.3	11.9	12.3	13.2	12.8	13.2	14.1	14.1
87.5°	5.7	5.7	5.7	5.7	5.7	6.2	5.7	6.2	6.6	6.6	6.6
90°	32.4	32.4	32.4	31.9	31.4	29.5	31.4	32.4	33.4	32.4	26.5
92.5°	60.9	64.8	65.8	69.8	73.7	84.5	99.2	126.7	151.3	149.3	115.9
95°	114.0	121.8	134.6	145.4	156.2	197.5	257.4	337.0	385.1	340.9	226.9
97.5°	204.3	224.0	262.3	291.8	321.3	420.5	526.6	632.7	627.8	485.3	301.6
100°	397.9	440.1	521.7	581.2	640.6	775.1	897.0	917.6	776.1	534.4	322.2
102.5°	748.6	828.2	918.6	982.4	1046.3	1135.7	1139.6	1023.7	781.0	515.8	323.2
105°	1163.2	1224.1	1285.0	1301.2	1317.5	1304.7	1193.7	989.3	728.0	490.2	328.1
107.5°	1426.5	1435.4	1436.3	1416.6	1397.0	1300.8	1135.7	916.6	678.9	476.5	338.9
110°	1499.2	1480.5	1438.3	1398.0	1357.7	1232.0	1056.1	848.8	645.5	472.6	352.7

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1479.6	1445.2	1382.3	1334.6	1287.0	1150.4	983.4	801.7	623.9	473.5	367.4
115°	1422.6	1377.4	1307.6	1257.0	1206.4	1077.7	926.4	764.3	609.1	477.5	382.2
117.5°	1350.9	1302.7	1231.0	1182.8	1134.7	1014.9	879.3	738.8	601.3	483.4	397.9
120°	1276.2	1230.0	1161.2	1116.5	1071.8	967.7	845.9	719.1	594.4	489.3	413.6
122.5°	1209.4	1164.2	1104.3	1065.0	1025.7	928.4	819.4	702.4	590.4	496.1	427.4
125°	1149.5	1112.1	1055.1	1018.3	981.5	895.0	793.8	686.7	585.5	503.0	442.1
127.5°	1098.4	1063.0	1012.9	978.5	944.1	861.6	768.3	672.0	582.6	509.9	455.9
130°	1052.2	1018.8	970.7	938.2	905.8	828.2	743.7	657.3	580.6	517.7	468.6
132.5°	1007.0	973.6	926.4	896.4	866.5	796.8	720.1	645.5	579.6	525.6	481.4
135°	957.9	925.5	883.2	855.7	828.2	763.4	698.5	634.7	578.7	531.5	492.2
137.5°	907.8	879.3	839.0	814.4	789.9	736.8	680.8	626.8	578.7	537.4	501.0
140°	856.7	831.1	799.7	778.1	756.5	711.3	664.1	619.9	577.7	541.3	507.9
142.5°	812.5	789.9	760.4	743.2	726.0	688.7	650.4	613.0	577.7	544.3	513.8
145°	769.3	752.6	729.0	714.8	700.5	670.0	637.6	607.2	575.7	546.2	518.7
147.5°	734.9	721.1	700.5	689.7	678.9	654.3	627.8	601.3	572.8	547.2	521.7
150°	703.4	691.6	676.9	668.0	659.2	638.6	617.0	593.4	569.8	546.2	523.6
152.5°	677.9	668.1	657.3	649.9	642.5	625.8	606.2	586.5	564.9	544.3	524.6
155°	655.3	648.4	637.6	632.2	626.8	612.1	596.3	577.7	559.0	542.3	525.6
157.5°	633.7	627.8	619.9	615.5	611.1	598.3	584.6	569.8	553.1	538.4	525.6
160°	614.0	609.1	602.2	598.8	595.4	584.6	573.7	561.0	547.2	535.4	525.6
162.5°	595.4	592.4	585.5	583.0	580.6	571.8	562.9	553.1	542.3	532.5	524.6
165°	577.7	573.7	569.8	567.8	565.9	559.0	552.1	544.3	535.4	528.6	522.7
167.5°	560.0	558.0	556.1	554.1	552.1	547.2	541.3	535.4	529.5	524.6	521.7
170°	546.2	543.3	542.3	541.3	540.3	536.4	533.5	528.6	524.6	521.7	519.7
172.5°	532.5	531.5	530.5	530.0	529.5	526.6	524.6	521.7	518.7	517.7	516.8
175°	522.7	521.7	521.7	521.2	520.7	519.7	518.7	515.8	514.8	513.8	514.8
177.5°	514.8	514.8	514.8	514.8	514.8	513.8	513.8	511.9	510.9	511.9	513.8
180°	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	586.9	584.7	583.4	584.3	581.7	575.1	575.1	577.3	574.6	572.0	568.0
5°	603.2	598.8	596.2	595.7	589.6	579.0	576.8	574.6	568.9	562.8	556.2
7.5°	619.0	611.1	606.7	603.7	594.9	581.2	575.5	570.7	561.4	552.2	543.9
10°	632.2	620.8	615.5	610.7	599.3	582.1	572.9	564.1	552.2	540.3	529.8
12.5°	642.8	629.6	623.0	616.0	601.9	579.5	568.0	554.0	542.1	526.3	515.7
15°	660.4	633.1	627.0	620.4	605.9	575.1	561.0	545.2	528.9	507.8	496.4
17.5°	674.4	637.9	637.5	623.4	604.5	573.3	551.8	531.1	513.5	492.4	474.4
20°	682.8	645.4	638.4	623.9	600.1	561.4	539.0	516.2	497.3	471.8	453.7
22.5°	689.8	656.0	637.5	619.9	590.9	557.5	524.5	503.0	477.0	449.3	432.2
25°	692.5	658.2	638.8	618.6	584.3	546.1	508.7	485.4	456.4	431.3	408.0
27.5°	692.9	657.7	634.0	612.9	575.1	531.1	492.9	468.2	436.1	407.1	383.8
30°	688.5	652.9	631.4	608.5	566.3	517.5	473.5	446.3	412.0	382.9	358.8
32.5°	675.3	643.2	625.6	600.6	554.9	498.6	455.0	424.7	388.7	360.1	336.8
35°	653.3	631.4	612.0	588.7	539.9	481.0	436.6	401.0	364.5	337.2	315.2
37.5°	626.1	614.2	596.2	573.3	522.8	465.2	415.9	376.3	339.9	313.5	291.9
40°	589.1	592.2	574.6	554.0	502.5	443.6	389.1	351.3	317.0	292.4	271.3
42.5°	549.1	561.9	551.8	532.0	480.1	419.9	369.3	327.5	294.1	268.6	251.0
45°	506.0	528.0	521.9	507.4	456.8	394.8	341.2	300.7	271.3	246.6	231.3
47.5°	459.0	490.2	490.2	479.7	430.9	369.8	317.0	275.7	246.6	229.1	214.1
50°	411.1	446.3	452.0	444.9	401.8	341.2	287.5	250.2	225.1	208.0	197.0
52.5°	361.0	401.8	412.4	408.9	371.1	313.9	263.4	226.9	204.0	189.1	179.4
55°	313.0	360.5	372.0	373.3	338.1	284.0	236.5	204.4	182.5	172.3	164.0
57.5°	267.8	313.5	326.2	328.4	304.7	256.8	211.5	183.3	163.6	155.2	148.6
60°	229.1	267.3	284.0	288.9	268.2	225.1	188.2	160.9	146.0	138.1	131.9
62.5°	197.4	228.2	245.8	247.1	237.9	197.4	164.0	141.1	128.4	121.3	118.3
65°	166.6	194.3	204.9	210.2	202.7	171.0	141.6	122.7	112.6	106.4	103.3
67.5°	142.0	159.6	168.4	175.4	167.9	144.2	120.5	105.1	97.6	91.4	89.7
70°	116.5	131.0	137.6	144.6	138.1	120.0	102.9	88.8	82.2	77.4	75.2
72.5°	93.2	104.6	110.8	115.2	111.2	96.3	82.2	72.5	67.7	64.2	62.9
75°	73.9	81.8	85.3	88.4	86.6	75.2	66.4	58.5	54.1	51.0	50.1
77.5°	56.3	62.0	65.9	66.8	64.6	57.2	49.7	44.8	41.3	39.6	38.7
80°	40.0	43.5	45.7	47.0	44.8	41.8	36.5	33.0	29.9	27.7	27.3
82.5°	26.8	28.6	30.3	29.9	29.0	26.4	23.3	21.5	20.2	18.5	18.5
85°	15.4	15.8	16.7	17.1	16.7	14.9	13.2	12.3	11.4	10.1	10.1
87.5°	6.6	7.0	7.0	7.5	6.6	6.6	5.7	4.8	4.8	4.4	4.0
90°	19.6	14.7	13.2	11.8	9.8	7.9	3.9	1.0	3.9	7.9	9.8
92.5°	78.6	52.1	46.7	41.3	33.4	28.5	20.6	14.7	20.6	28.5	33.4
95°	141.5	96.3	84.5	72.7	57.0	48.1	38.3	34.4	38.3	48.1	57.0
97.5°	182.7	124.8	111.5	98.2	80.6	67.8	57.0	51.1	57.0	67.8	80.6
100°	202.4	150.3	136.6	122.8	103.2	87.4	78.6	75.6	78.6	87.4	103.2
102.5°	220.1	172.9	159.2	145.4	124.8	109.1	100.2	98.2	100.2	109.1	124.8
105°	240.7	194.5	180.8	167.0	145.4	130.7	123.8	119.9	123.8	130.7	145.4
107.5°	261.3	216.1	202.4	188.6	167.0	153.3	146.4	143.4	146.4	153.3	167.0
110°	282.0	238.7	224.4	210.2	189.6	176.8	170.9	167.0	170.9	176.8	189.6

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	301.6	260.3	245.6	230.9	211.2	199.4	192.6	188.6	192.6	199.4	211.2
115°	322.2	280.0	266.8	253.5	233.8	222.0	216.1	211.2	216.1	222.0	233.8
117.5°	340.9	301.6	287.8	274.1	255.4	244.6	238.7	234.8	238.7	244.6	255.4
120°	360.6	322.2	308.4	294.7	275.1	266.2	260.3	256.4	260.3	266.2	275.1
122.5°	379.2	343.9	329.6	315.4	295.7	285.9	280.0	277.0	280.0	285.9	295.7
125°	397.9	362.5	348.8	335.0	315.4	303.6	297.7	294.7	297.7	303.6	315.4
127.5°	415.6	381.2	367.0	352.7	334.0	321.3	313.4	309.5	313.4	321.3	334.0
130°	431.3	396.9	383.2	369.4	349.7	336.0	326.2	322.2	326.2	336.0	349.7
132.5°	445.0	412.6	398.8	385.1	364.5	349.7	338.9	334.0	338.9	349.7	364.5
135°	457.8	426.4	412.6	398.9	376.3	361.5	349.7	345.8	349.7	361.5	376.3
137.5°	468.6	437.2	424.4	411.6	389.0	373.3	361.5	356.6	361.5	373.3	389.0
140°	477.5	448.0	435.2	422.5	400.8	385.1	373.3	369.4	373.3	385.1	400.8
142.5°	484.3	455.9	444.1	432.3	411.6	395.9	385.1	382.2	385.1	395.9	411.6
145°	491.2	464.7	453.9	443.1	423.4	408.7	398.9	394.9	398.9	408.7	423.4
147.5°	497.1	471.6	461.8	451.9	435.2	421.5	411.6	408.7	411.6	421.5	435.2
150°	501.0	478.5	469.6	460.8	446.0	433.3	425.4	422.5	425.4	433.3	446.0
152.5°	505.0	485.3	477.4	469.6	455.9	445.0	437.2	436.2	437.2	445.0	455.9
155°	508.9	492.2	484.8	477.5	466.7	455.9	450.0	449.0	450.0	455.9	466.7
157.5°	511.9	497.1	490.7	484.3	475.5	465.7	460.8	459.8	460.8	465.7	475.5
160°	513.8	502.0	496.6	491.2	483.4	475.5	471.6	470.6	471.6	475.5	483.4
162.5°	514.8	505.0	501.0	497.1	490.2	484.3	480.4	481.4	480.4	484.3	490.2
165°	515.8	506.9	504.0	501.0	496.1	490.2	488.3	489.3	488.3	490.2	496.1
167.5°	515.8	508.9	507.0	505.0	501.0	497.1	495.2	496.1	495.2	497.1	501.0
170°	514.8	509.9	508.4	506.9	505.0	502.0	501.0	503.0	501.0	502.0	505.0
172.5°	513.8	510.9	509.9	508.9	507.9	505.0	506.0	506.9	506.0	505.0	507.9
175°	512.8	510.9	510.4	509.9	509.9	507.9	508.9	509.9	508.9	507.9	509.9
177.5°	511.9	510.9	510.9	510.9	510.9	508.9	509.9	511.9	509.9	508.9	510.9
180°	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	565.8	568.0	567.6	563.2	558.4	554.4	546.9	547.8	545.2	545.6	548.3
5°	551.8	551.8	550.0	543.9	535.9	531.5	523.2	521.0	515.7	515.3	514.8
7.5°	536.8	534.6	532.4	523.6	514.0	506.9	495.5	492.9	487.6	484.1	482.3
10°	519.2	516.2	511.8	501.7	489.8	481.0	469.1	465.6	455.5	451.1	448.5
12.5°	499.9	498.1	491.1	482.7	463.4	453.7	436.6	440.1	430.0	421.2	419.9
15°	480.5	474.0	470.0	456.4	433.1	428.7	415.0	408.0	398.8	391.7	391.7
17.5°	461.6	451.5	442.7	428.2	411.1	398.8	388.7	385.1	373.7	366.7	365.4
20°	436.6	425.2	423.0	402.3	390.4	376.8	367.1	358.3	350.0	346.9	344.7
22.5°	412.8	399.7	396.1	378.5	366.7	353.0	343.4	337.2	331.1	328.9	324.9
25°	387.3	379.4	374.2	355.2	342.1	329.3	322.7	318.3	312.6	312.2	309.5
27.5°	362.7	355.2	350.0	331.9	322.3	310.4	305.1	300.3	297.2	295.9	294.6
30°	341.6	333.3	327.1	313.9	302.0	292.4	288.0	284.9	283.1	280.9	280.5
32.5°	318.3	313.5	305.1	295.0	285.8	276.5	273.9	271.7	269.1	268.2	267.8
35°	298.5	291.9	286.7	275.2	271.3	263.4	260.3	258.5	255.0	254.1	253.2
37.5°	279.2	273.0	267.3	260.3	252.8	248.4	246.6	244.0	242.3	242.7	241.8
40°	259.8	255.0	250.6	243.1	238.7	236.5	233.0	230.4	229.5	229.9	229.5
42.5°	240.9	236.5	233.9	228.2	223.8	221.6	219.4	216.8	218.1	218.1	219.4
45°	223.8	219.8	218.1	213.7	211.0	207.5	205.3	204.9	206.6	206.2	206.2
47.5°	206.2	204.9	202.7	198.7	195.2	193.0	192.6	192.6	194.3	195.2	194.8
50°	192.6	189.9	187.3	184.2	181.6	180.7	179.4	180.3	182.0	182.0	182.9
52.5°	175.4	173.7	172.8	170.1	168.4	168.4	168.4	168.8	170.1	171.5	171.0
55°	160.5	159.2	158.3	157.0	154.8	155.2	154.8	155.6	157.0	158.3	159.2
57.5°	144.6	144.2	143.3	141.1	141.1	140.7	142.0	142.4	144.6	145.5	146.8
60°	130.6	129.3	129.3	127.5	127.5	127.5	128.8	130.1	131.9	132.3	133.2
62.5°	115.6	115.6	115.2	113.9	113.9	115.2	115.6	117.4	118.3	118.3	119.6
65°	101.6	101.1	100.7	101.1	101.6	101.6	102.9	103.8	104.6	105.1	105.5
67.5°	87.5	87.1	87.9	87.5	88.4	90.1	89.7	91.0	92.3	92.3	92.8
70°	74.3	75.2	74.7	75.6	75.2	76.1	77.4	77.8	77.8	78.3	79.6
72.5°	62.0	62.0	62.0	61.6	62.0	62.9	63.8	64.2	65.1	65.5	66.8
75°	50.1	50.1	49.2	50.1	50.1	51.0	51.9	51.9	51.9	52.8	54.1
77.5°	37.8	38.3	37.8	38.7	38.7	39.1	40.0	39.6	40.4	40.9	41.3
80°	27.7	27.3	27.3	27.3	27.7	27.7	28.6	29.0	29.0	30.3	29.5
82.5°	17.6	18.0	17.6	18.0	18.0	18.5	18.0	18.5	18.9	19.8	19.3
85°	10.1	9.7	9.7	10.1	9.7	9.7	10.1	9.7	10.1	9.7	10.1
87.5°	4.0	3.5	3.5	3.5	3.5	3.1	3.1	2.6	2.6	2.6	2.2
90°	11.8	13.2	14.7	19.6	26.5	32.4	33.4	32.4	31.4	29.5	31.4
92.5°	41.3	46.7	52.1	78.6	115.9	149.3	151.3	126.7	99.2	84.5	73.7
95°	72.7	84.5	96.3	141.5	226.9	340.9	385.1	337.0	257.4	197.5	156.2
97.5°	98.2	111.5	124.8	182.7	301.6	485.3	627.8	632.7	526.6	420.5	321.3
100°	122.8	136.6	150.3	202.4	322.2	534.4	776.1	917.6	897.0	775.1	640.6
102.5°	145.4	159.2	172.9	220.1	323.2	515.8	781.0	1023.7	1139.6	1135.7	1046.3
105°	167.0	180.8	194.5	240.7	328.1	490.2	728.0	989.3	1193.7	1304.7	1317.5
107.5°	188.6	202.4	216.1	261.3	338.9	476.5	678.9	916.6	1135.7	1300.8	1397.0
110°	210.2	224.4	238.7	282.0	352.7	472.6	645.5	848.8	1056.1	1232.0	1357.7

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	230.9	245.6	260.3	301.6	367.4	473.5	623.9	801.7	983.4	1150.4	1287.0
115°	253.5	266.8	280.0	322.2	382.2	477.5	609.1	764.3	926.4	1077.7	1206.4
117.5°	274.1	287.8	301.6	340.9	397.9	483.4	601.3	738.8	879.3	1014.9	1134.7
120°	294.7	308.4	322.2	360.6	413.6	489.3	594.4	719.1	845.9	967.7	1071.8
122.5°	315.4	329.6	343.9	379.2	427.4	496.1	590.4	702.4	819.4	928.4	1025.7
125°	335.0	348.8	362.5	397.9	442.1	503.0	585.5	686.7	793.8	895.0	981.5
127.5°	352.7	367.0	381.2	415.6	455.9	509.9	582.6	672.0	768.3	861.6	944.1
130°	369.4	383.2	396.9	431.3	468.6	517.7	580.6	657.3	743.7	828.2	905.8
132.5°	385.1	398.8	412.6	445.0	481.4	525.6	579.6	645.5	720.1	796.8	866.5
135°	398.9	412.6	426.4	457.8	492.2	531.5	578.7	634.7	698.5	763.4	828.2
137.5°	411.6	424.4	437.2	468.6	501.0	537.4	578.7	626.8	680.8	736.8	789.9
140°	422.5	435.2	448.0	477.5	507.9	541.3	577.7	619.9	664.1	711.3	756.5
142.5°	432.3	444.1	455.9	484.3	513.8	544.3	577.7	613.0	650.4	688.7	726.0
145°	443.1	453.9	464.7	491.2	518.7	546.2	575.7	607.2	637.6	670.0	700.5
147.5°	451.9	461.8	471.6	497.1	521.7	547.2	572.8	601.3	627.8	654.3	678.9
150°	460.8	469.6	478.5	501.0	523.6	546.2	569.8	593.4	617.0	638.6	659.2
152.5°	469.6	477.4	485.3	505.0	524.6	544.3	564.9	586.5	606.2	625.8	642.5
155°	477.5	484.8	492.2	508.9	525.6	542.3	559.0	577.7	596.3	612.1	626.8
157.5°	484.3	490.7	497.1	511.9	525.6	538.4	553.1	569.8	584.6	598.3	611.1
160°	491.2	496.6	502.0	513.8	525.6	535.4	547.2	561.0	573.7	584.6	595.4
162.5°	497.1	501.0	505.0	514.8	524.6	532.5	542.3	553.1	562.9	571.8	580.6
165°	501.0	504.0	506.9	515.8	522.7	528.6	535.4	544.3	552.1	559.0	565.9
167.5°	505.0	507.0	508.9	515.8	521.7	524.6	529.5	535.4	541.3	547.2	552.1
170°	506.9	508.4	509.9	514.8	519.7	521.7	524.6	528.6	533.5	536.4	540.3
172.5°	508.9	509.9	510.9	513.8	516.8	517.7	518.7	521.7	524.6	526.6	529.5
175°	509.9	510.4	510.9	512.8	514.8	513.8	514.8	515.8	518.7	519.7	520.7
177.5°	510.9	510.9	510.9	511.9	513.8	511.9	510.9	511.9	513.8	513.8	514.8
180°	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	545.2	546.5	543.4	542.5	543.4	540.3	541.2	542.1	542.1	543.4	544.3
5°	513.5	511.8	508.7	507.8	506.9	508.2	507.4	508.7	509.1	512.2	512.6
7.5°	482.3	479.7	477.0	474.4	473.5	471.3	473.5	473.5	476.6	475.7	477.9
10°	445.4	444.9	441.4	440.1	438.3	434.8	439.7	438.3	440.5	444.5	445.4
12.5°	418.1	413.3	415.5	409.3	411.5	408.0	408.4	408.4	412.0	412.4	411.5
15°	392.2	388.2	382.5	379.9	378.5	376.8	382.5	382.9	380.3	386.5	384.3
17.5°	365.8	365.8	360.5	359.2	355.7	357.4	356.6	357.0	356.1	360.5	362.7
20°	342.9	340.7	339.0	339.4	335.0	334.1	333.3	334.1	337.2	340.3	341.2
22.5°	324.5	323.1	318.8	319.6	316.1	317.4	316.6	318.8	319.2	319.2	322.3
25°	306.9	305.1	305.6	303.8	302.5	302.5	301.2	302.5	304.2	305.1	305.6
27.5°	293.7	292.4	290.2	288.9	289.7	287.5	289.3	290.6	290.6	289.7	290.6
30°	277.9	278.7	278.7	274.3	276.1	275.2	276.5	277.4	277.4	277.9	277.0
32.5°	267.3	264.7	264.2	263.8	263.8	262.0	262.0	263.4	263.8	264.2	265.6
35°	253.2	253.2	251.0	252.4	250.6	251.0	250.6	251.0	251.9	250.6	251.9
37.5°	240.5	240.9	240.1	240.9	241.4	240.5	239.6	241.4	240.5	240.5	239.6
40°	229.5	229.1	229.5	229.5	229.5	229.9	229.1	229.1	229.1	228.2	227.3
42.5°	220.3	217.6	218.5	219.0	217.6	217.6	218.1	217.6	219.0	216.3	216.3
45°	207.1	206.2	206.6	206.6	207.5	206.2	207.1	207.5	206.2	205.8	204.9
47.5°	195.2	196.1	195.2	196.1	196.1	197.0	195.2	195.6	196.1	194.3	193.0
50°	183.3	183.3	184.7	184.2	184.7	183.8	183.8	183.3	183.8	182.9	181.6
52.5°	172.3	171.0	173.2	172.8	172.3	171.9	171.5	171.9	171.0	170.1	170.1
55°	158.7	158.7	160.0	160.5	160.5	159.6	158.7	159.2	158.7	158.3	157.8
57.5°	147.7	146.0	146.8	147.3	147.3	146.0	146.8	146.0	146.0	146.4	145.1
60°	133.7	133.7	132.8	134.1	134.1	133.2	133.2	133.7	132.8	132.3	131.9
62.5°	118.7	119.1	120.5	120.9	121.3	120.5	119.6	120.0	120.0	118.7	119.1
65°	106.0	106.8	108.6	108.2	107.3	107.7	106.8	107.3	106.0	106.4	105.1
67.5°	93.6	93.2	93.6	93.6	94.5	94.1	93.2	93.2	92.8	94.1	92.8
70°	80.5	80.5	80.5	80.5	80.9	81.3	80.5	79.6	80.0	79.1	78.7
72.5°	66.8	67.3	66.8	67.7	66.4	67.3	67.3	66.8	66.4	66.4	66.4
75°	54.1	55.0	53.6	54.1	53.6	54.5	54.1	54.1	53.2	52.8	53.2
77.5°	41.3	41.8	40.9	41.3	40.9	41.3	41.3	40.9	40.9	40.9	40.9
80°	29.5	29.9	29.5	29.0	28.6	29.5	28.6	29.0	29.5	29.0	29.9
82.5°	18.9	18.9	18.5	18.9	18.0	18.0	18.5	18.5	18.0	18.9	18.0
85°	9.2	9.2	10.1	9.2	8.8	8.8	8.8	9.2	8.8	9.7	9.2
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.6	1.8
90°	31.9	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	32.4	31.9
92.5°	69.8	65.8	64.8	60.9	61.9	59.9	61.9	60.9	64.8	65.8	69.8
95°	145.4	134.6	121.8	114.0	111.0	112.0	111.0	114.0	121.8	134.6	145.4
97.5°	291.8	262.3	224.0	204.3	193.5	187.6	193.5	204.3	224.0	262.3	291.8
100°	581.2	521.7	440.1	397.9	369.4	351.7	369.4	397.9	440.1	521.7	581.2
102.5°	982.4	918.6	828.2	748.6	711.3	685.7	711.3	748.6	828.2	918.6	982.4
105°	1301.2	1285.0	1224.1	1163.2	1121.0	1107.2	1121.0	1163.2	1224.1	1285.0	1301.2
107.5°	1416.6	1436.3	1435.4	1426.5	1413.7	1391.1	1413.7	1426.5	1435.4	1436.3	1416.6
110°	1398.0	1438.3	1480.5	1499.2	1508.1	1507.1	1508.1	1499.2	1480.5	1438.3	1398.0

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	1334.6	1382.3	1445.2	1479.6	1498.2	1505.1	1498.2	1479.6	1445.2	1382.3	1334.6
115°	1257.0	1307.6	1377.4	1422.6	1448.1	1457.0	1448.1	1422.6	1377.4	1307.6	1257.0
117.5°	1182.8	1231.0	1302.7	1350.9	1377.4	1384.3	1377.4	1350.9	1302.7	1231.0	1182.8
120°	1116.5	1161.2	1230.0	1276.2	1304.7	1314.5	1304.7	1276.2	1230.0	1161.2	1116.5
122.5°	1065.0	1104.3	1164.2	1209.4	1233.9	1241.8	1233.9	1209.4	1164.2	1104.3	1065.0
125°	1018.3	1055.1	1112.1	1149.5	1174.0	1181.9	1174.0	1149.5	1112.1	1055.1	1018.3
127.5°	978.5	1012.9	1063.0	1098.4	1120.0	1125.9	1120.0	1098.4	1063.0	1012.9	978.5
130°	938.2	970.7	1018.8	1052.2	1071.8	1079.7	1071.8	1052.2	1018.8	970.7	938.2
132.5°	896.4	926.4	973.6	1007.0	1024.7	1031.6	1024.7	1007.0	973.6	926.4	896.4
135°	855.7	883.2	925.5	957.9	975.6	979.5	975.6	957.9	925.5	883.2	855.7
137.5°	814.4	839.0	879.3	907.8	923.5	929.4	923.5	907.8	879.3	839.0	814.4
140°	778.1	799.7	831.1	856.7	871.4	877.3	871.4	856.7	831.1	799.7	778.1
142.5°	743.2	760.4	789.9	812.5	825.3	825.3	825.3	812.5	789.9	760.4	743.2
145°	714.8	729.0	752.6	769.3	779.1	782.0	779.1	769.3	752.6	729.0	714.8
147.5°	689.7	700.5	721.1	734.9	741.7	743.7	741.7	734.9	721.1	700.5	689.7
150°	668.0	676.9	691.6	703.4	709.3	710.3	709.3	703.4	691.6	676.9	668.0
152.5°	649.9	657.3	668.1	677.9	681.8	681.8	681.8	677.9	668.1	657.3	649.9
155°	632.2	637.6	648.4	655.3	659.2	657.3	659.2	655.3	648.4	637.6	632.2
157.5°	615.5	619.9	627.8	633.7	635.6	635.6	635.6	633.7	627.8	619.9	615.5
160°	598.8	602.2	609.1	614.0	615.0	615.0	615.0	614.0	609.1	602.2	598.8
162.5°	583.0	585.5	592.4	595.4	596.3	595.4	596.3	595.4	592.4	585.5	583.0
165°	567.8	569.8	573.7	577.7	577.7	576.7	577.7	577.7	573.7	569.8	567.8
167.5°	554.1	556.1	558.0	560.0	560.0	559.0	560.0	560.0	558.0	556.1	554.1
170°	541.3	542.3	543.3	546.2	545.3	543.3	545.3	546.2	543.3	542.3	541.3
172.5°	530.0	530.5	531.5	532.5	531.5	530.5	531.5	532.5	531.5	530.5	530.0
175°	521.2	521.7	521.7	522.7	521.7	519.7	521.7	522.7	521.7	521.7	521.2
177.5°	514.8	514.8	514.8	514.8	513.8	511.9	513.8	514.8	514.8	514.8	514.8
180°	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	543.0	546.5	545.2	540.3	546.1	546.1	550.0	550.0	554.9	556.6	559.2
5°	512.2	514.8	517.0	514.8	518.8	525.0	528.5	531.5	538.1	540.8	544.7
7.5°	479.2	484.1	486.3	486.3	492.9	499.9	506.9	511.3	520.6	524.1	528.0
10°	447.1	452.8	457.2	456.8	467.8	472.2	481.0	491.1	500.3	505.6	511.3
12.5°	413.3	416.4	422.5	431.3	433.9	441.9	452.0	464.7	481.4	486.3	494.6
15°	385.1	393.5	398.3	402.3	408.4	415.9	426.9	439.2	455.9	466.5	475.3
17.5°	361.4	372.4	375.5	374.6	382.5	393.9	406.7	415.9	430.9	443.6	452.0
20°	342.1	346.5	351.7	353.9	360.1	372.4	384.7	395.3	407.6	417.7	427.3
22.5°	322.7	326.2	330.6	334.6	339.4	346.5	358.3	371.5	383.4	393.1	404.0
25°	306.9	309.1	313.0	316.1	321.4	326.2	334.6	349.1	363.2	368.9	378.5
27.5°	291.5	293.3	295.9	299.4	302.0	306.9	314.4	326.2	340.7	346.5	359.6
30°	277.9	279.2	281.8	283.6	284.9	290.6	296.3	305.6	316.6	324.5	334.1
32.5°	265.1	266.4	269.1	269.5	271.3	274.3	279.6	288.0	297.6	304.2	312.6
35°	251.0	251.9	254.6	255.4	256.8	259.4	263.4	269.5	278.3	283.1	290.6
37.5°	240.1	239.6	241.4	242.7	244.5	245.8	247.1	253.2	259.8	264.2	270.0
40°	228.2	227.3	227.7	229.5	230.4	232.1	232.1	238.3	242.7	246.2	250.6
42.5°	216.3	215.9	215.0	215.9	216.8	217.2	217.6	222.0	226.4	229.5	234.3
45°	204.4	204.0	203.1	203.6	203.6	204.4	205.8	207.5	210.6	213.2	215.9
47.5°	193.5	192.6	191.3	190.8	191.7	191.7	191.7	193.5	196.5	197.4	200.0
50°	182.0	180.7	178.9	178.1	178.1	177.6	178.5	178.9	181.6	182.5	184.7
52.5°	169.7	168.8	167.1	165.3	165.8	164.9	165.3	165.8	166.6	167.9	169.3
55°	157.4	155.6	154.3	153.9	152.6	152.6	151.2	153.0	152.6	153.0	154.8
57.5°	145.5	143.8	141.6	140.7	139.4	138.9	138.1	137.6	138.1	139.4	140.7
60°	131.5	130.6	129.3	127.9	127.1	125.7	124.9	124.9	124.4	124.4	124.9
62.5°	117.8	117.4	115.6	115.2	114.3	113.4	112.1	111.2	111.2	112.1	112.6
65°	104.6	104.2	102.9	102.4	100.2	99.4	98.9	98.5	97.6	97.6	97.6
67.5°	92.3	91.0	91.0	88.8	87.1	86.2	85.3	84.9	84.9	84.9	85.3
70°	78.7	78.7	77.4	76.1	74.3	74.7	73.4	72.1	72.1	71.2	71.7
72.5°	65.5	65.1	63.8	63.3	62.0	60.7	59.8	60.7	59.4	58.9	59.4
75°	52.8	52.3	51.4	50.6	51.0	49.7	48.4	47.9	47.9	47.0	47.0
77.5°	40.4	41.3	39.6	39.1	38.3	37.4	36.9	36.5	36.5	36.5	37.4
80°	28.1	28.6	28.6	27.7	28.1	26.8	26.8	26.8	25.5	25.9	26.4
82.5°	18.0	18.0	17.6	18.0	17.6	17.6	17.1	17.1	16.7	16.7	17.1
85°	10.1	9.7	9.2	10.1	9.7	9.7	9.2	9.2	9.2	9.2	9.2
87.5°	2.2	2.6	2.6	2.6	2.6	3.1	3.1	3.1	3.5	3.5	3.5
90°	31.4	29.5	31.4	32.4	33.4	32.4	26.5	19.6	14.7	13.2	11.8
92.5°	73.7	84.5	99.2	126.7	151.3	149.3	115.9	78.6	52.1	46.7	41.3
95°	156.2	197.5	257.4	337.0	385.1	340.9	226.9	141.5	96.3	84.5	72.7
97.5°	321.3	420.5	526.6	632.7	627.8	485.3	301.6	182.7	124.8	111.5	98.2
100°	640.6	775.1	897.0	917.6	776.1	534.4	322.2	202.4	150.3	136.6	122.8
102.5°	1046.3	1135.7	1139.6	1023.7	781.0	515.8	323.2	220.1	172.9	159.2	145.4
105°	1317.5	1304.7	1193.7	989.3	728.0	490.2	328.1	240.7	194.5	180.8	167.0
107.5°	1397.0	1300.8	1135.7	916.6	678.9	476.5	338.9	261.3	216.1	202.4	188.6
110°	1357.7	1232.0	1056.1	848.8	645.5	472.6	352.7	282.0	238.7	224.4	210.2

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	1287.0	1150.4	983.4	801.7	623.9	473.5	367.4	301.6	260.3	245.6	230.9
115°	1206.4	1077.7	926.4	764.3	609.1	477.5	382.2	322.2	280.0	266.8	253.5
117.5°	1134.7	1014.9	879.3	738.8	601.3	483.4	397.9	340.9	301.6	287.8	274.1
120°	1071.8	967.7	845.9	719.1	594.4	489.3	413.6	360.6	322.2	308.4	294.7
122.5°	1025.7	928.4	819.4	702.4	590.4	496.1	427.4	379.2	343.9	329.6	315.4
125°	981.5	895.0	793.8	686.7	585.5	503.0	442.1	397.9	362.5	348.8	335.0
127.5°	944.1	861.6	768.3	672.0	582.6	509.9	455.9	415.6	381.2	367.0	352.7
130°	905.8	828.2	743.7	657.3	580.6	517.7	468.6	431.3	396.9	383.2	369.4
132.5°	866.5	796.8	720.1	645.5	579.6	525.6	481.4	445.0	412.6	398.8	385.1
135°	828.2	763.4	698.5	634.7	578.7	531.5	492.2	457.8	426.4	412.6	398.9
137.5°	789.9	736.8	680.8	626.8	578.7	537.4	501.0	468.6	437.2	424.4	411.6
140°	756.5	711.3	664.1	619.9	577.7	541.3	507.9	477.5	448.0	435.2	422.5
142.5°	726.0	688.7	650.4	613.0	577.7	544.3	513.8	484.3	455.9	444.1	432.3
145°	700.5	670.0	637.6	607.2	575.7	546.2	518.7	491.2	464.7	453.9	443.1
147.5°	678.9	654.3	627.8	601.3	572.8	547.2	521.7	497.1	471.6	461.8	451.9
150°	659.2	638.6	617.0	593.4	569.8	546.2	523.6	501.0	478.5	469.6	460.8
152.5°	642.5	625.8	606.2	586.5	564.9	544.3	524.6	505.0	485.3	477.4	469.6
155°	626.8	612.1	596.3	577.7	559.0	542.3	525.6	508.9	492.2	484.8	477.5
157.5°	611.1	598.3	584.6	569.8	553.1	538.4	525.6	511.9	497.1	490.7	484.3
160°	595.4	584.6	573.7	561.0	547.2	535.4	525.6	513.8	502.0	496.6	491.2
162.5°	580.6	571.8	562.9	553.1	542.3	532.5	524.6	514.8	505.0	501.0	497.1
165°	565.9	559.0	552.1	544.3	535.4	528.6	522.7	515.8	506.9	504.0	501.0
167.5°	552.1	547.2	541.3	535.4	529.5	524.6	521.7	515.8	508.9	507.0	505.0
170°	540.3	536.4	533.5	528.6	524.6	521.7	519.7	514.8	509.9	508.4	506.9
172.5°	529.5	526.6	524.6	521.7	518.7	517.7	516.8	513.8	510.9	509.9	508.9
175°	520.7	519.7	518.7	515.8	514.8	513.8	514.8	512.8	510.9	510.4	509.9
177.5°	514.8	513.8	513.8	511.9	510.9	511.9	513.8	511.9	510.9	510.9	510.9
180°	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9	510.9

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	572.0	572.0	572.0	572.0
2.5°	561.4	561.4	568.0	575.1
5°	549.1	552.2	562.8	572.4
7.5°	537.3	542.5	555.7	568.0
10°	522.8	529.8	546.1	560.6
12.5°	508.7	515.3	534.2	550.5
15°	488.9	497.3	517.5	537.7
17.5°	469.1	477.5	502.1	525.8
20°	445.8	456.8	484.5	516.2
22.5°	424.3	437.9	468.7	494.2
25°	400.5	421.6	450.2	483.2
27.5°	379.4	400.5	429.5	463.0
30°	355.7	377.2	407.1	437.9
32.5°	332.8	352.6	381.6	419.4
35°	309.1	328.0	356.1	394.4
37.5°	287.5	306.0	336.8	372.0
40°	266.4	285.8	312.2	347.3
42.5°	246.6	263.8	287.5	322.7
45°	228.6	240.9	262.9	295.9
47.5°	209.7	220.7	240.9	273.9
50°	192.1	201.4	219.0	249.7
52.5°	175.0	182.9	199.2	223.8
55°	159.6	167.1	178.9	203.1
57.5°	143.8	149.5	160.9	180.3
60°	128.4	133.7	142.9	158.7
62.5°	113.0	117.4	126.2	138.9
65°	99.4	102.9	109.5	120.5
67.5°	86.2	88.4	93.6	102.4
70°	73.4	75.2	79.6	86.6
72.5°	59.8	61.6	66.4	71.2
75°	48.4	48.8	52.3	56.3
77.5°	37.8	37.4	40.0	43.1
80°	25.9	27.3	29.5	30.8
82.5°	17.6	18.0	18.9	19.8
85°	9.7	10.1	10.1	11.4
87.5°	4.0	4.4	4.4	4.8
90°	9.8	7.9	3.9	1.0
92.5°	33.4	28.5	20.6	14.7
95°	57.0	48.1	38.3	34.4
97.5°	80.6	67.8	57.0	51.1
100°	103.2	87.4	78.6	75.6
102.5°	124.8	109.1	100.2	98.2
105°	145.4	130.7	123.8	119.9
107.5°	167.0	153.3	146.4	143.4
110°	189.6	176.8	170.9	167.0



TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	211.2	199.4	192.6	188.6
115°	233.8	222.0	216.1	211.2
117.5°	255.4	244.6	238.7	234.8
120°	275.1	266.2	260.3	256.4
122.5°	295.7	285.9	280.0	277.0
125°	315.4	303.6	297.7	294.7
127.5°	334.0	321.3	313.4	309.5
130°	349.7	336.0	326.2	322.2
132.5°	364.5	349.7	338.9	334.0
135°	376.3	361.5	349.7	345.8
137.5°	389.0	373.3	361.5	356.6
140°	400.8	385.1	373.3	369.4
142.5°	411.6	395.9	385.1	382.2
145°	423.4	408.7	398.9	394.9
147.5°	435.2	421.5	411.6	408.7
150°	446.0	433.3	425.4	422.5
152.5°	455.9	445.0	437.2	436.2
155°	466.7	455.9	450.0	449.0
157.5°	475.5	465.7	460.8	459.8
160°	483.4	475.5	471.6	470.6
162.5°	490.2	484.3	480.4	481.4
165°	496.1	490.2	488.3	489.3
167.5°	501.0	497.1	495.2	496.1
170°	505.0	502.0	501.0	503.0
172.5°	507.9	505.0	506.0	506.9
175°	509.9	507.9	508.9	509.9
177.5°	510.9	508.9	509.9	511.9
180°	510.9	510.9	510.9	510.9

TEST NUMBER: P998362

CATALOG NUMBER: SA2XXDIP-B290D925UB40-4F0-XX-W2A-A4

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.72	11.38	11.86	12.51	14.09	8.21	8.88	9.35	10.01	11.58
	3H	11.51	12.11	12.66	13.25	14.84	9.54	10.14	10.69	11.27	12.86
	4H	11.67	12.24	12.83	13.38	14.97	9.99	10.56	11.15	11.70	13.29
	6H	11.71	12.23	12.87	13.37	14.98	10.29	10.81	11.46	11.95	13.56
	8H	11.68	12.18	12.85	13.33	14.93	10.37	10.86	11.54	12.02	13.62
	12H	11.64	12.11	12.81	13.26	14.88	10.40	10.87	11.58	12.02	13.64
4H	2H	10.73	11.30	11.90	12.44	14.03	8.63	9.20	9.80	10.34	11.93
	3H	11.70	12.17	12.87	13.33	14.94	10.07	10.55	11.25	11.71	13.32
	4H	11.97	12.40	13.14	13.55	15.18	10.60	11.04	11.77	12.19	13.81
	6H	12.09	12.46	13.26	13.63	15.25	10.97	11.34	12.15	12.52	14.13
	8H	12.08	12.43	13.26	13.59	15.23	11.08	11.42	12.25	12.59	14.22
	12H	12.04	12.35	13.23	13.53	15.16	11.12	11.44	12.32	12.62	14.25
8H	4H	11.96	12.31	13.14	13.47	15.11	10.73	11.08	11.91	12.24	13.88
	6H	12.13	12.42	13.33	13.63	15.26	11.16	11.44	12.35	12.65	14.28
	8H	12.16	12.41	13.36	13.59	15.25	11.31	11.55	12.51	12.74	14.39
	12H	12.14	12.36	13.34	13.54	15.22	11.39	11.61	12.59	12.79	14.47
12H	4H	11.91	12.22	13.10	13.40	15.04	10.69	11.01	11.89	12.19	13.82
	6H	12.11	12.36	13.31	13.54	15.20	11.16	11.40	12.36	12.59	14.24
	8H	12.13	12.35	13.34	13.53	15.22	11.31	11.52	12.51	12.71	14.39