

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: P998181

Luminaire Tested: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998181
REPORT IS A COMBINATION OF REPORTS P983921 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

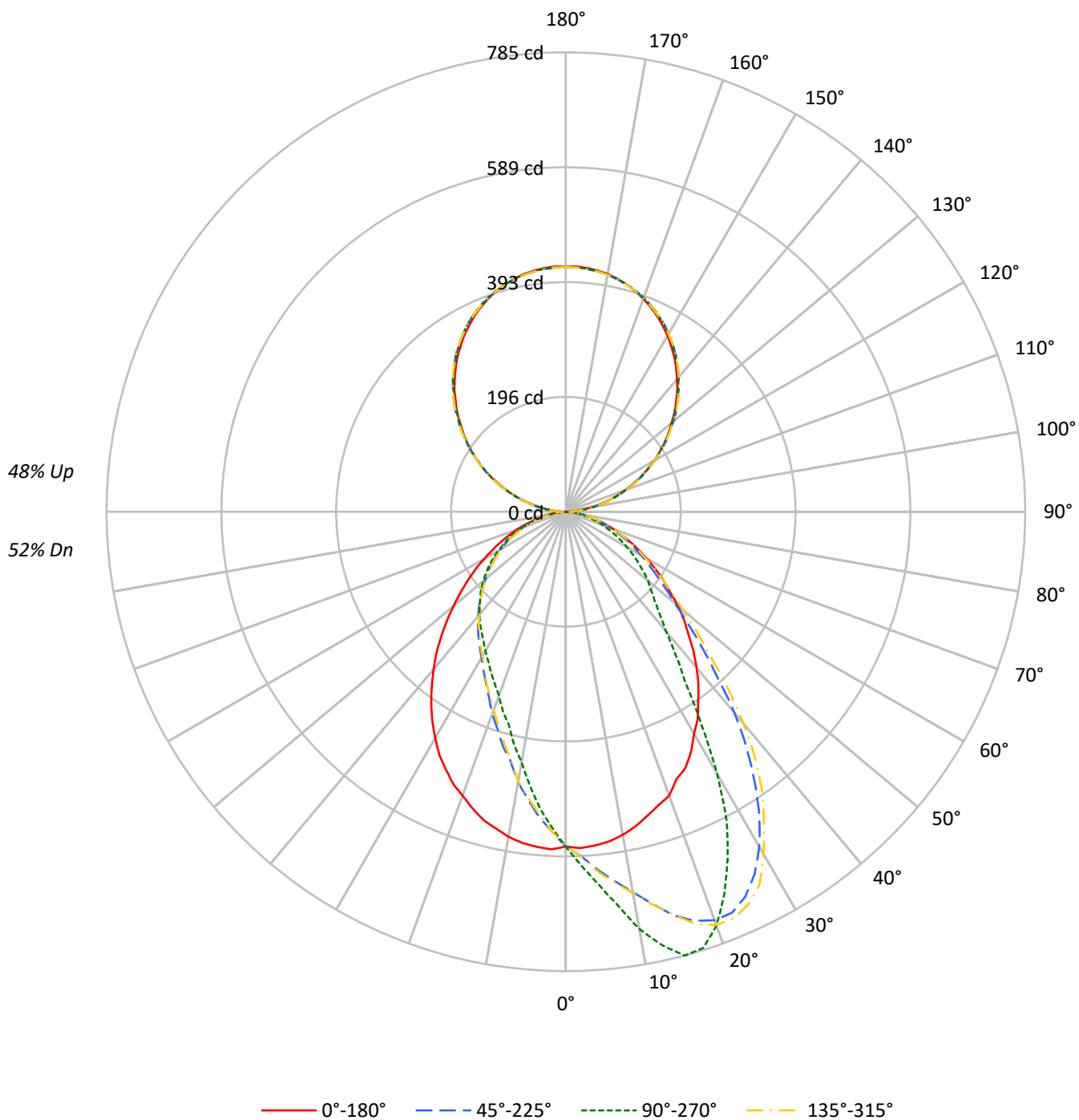
Lumens per Lamp: N/A
Luminaire Lumens: 2434.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	108	108	108	108	99	99	99	99	84	84	84	71	71	71	58	58	58
1	99	95	91	87	91	88	84	82	75	72	70	63	61	60	52	51	50
2	90	83	77	72	83	77	72	68	66	62	59	56	53	51	46	44	43
3	83	74	66	61	76	68	62	57	59	54	50	50	46	43	41	39	37
4	76	65	58	52	70	61	54	49	53	47	43	45	41	38	37	35	32
5	70	59	51	45	65	55	48	42	47	42	38	40	36	33	34	31	28
6	65	53	45	39	60	49	42	37	43	37	33	37	32	29	31	28	25
7	60	48	40	35	55	45	38	33	39	33	29	34	29	26	28	25	23
8	56	44	36	31	51	41	34	29	36	30	26	31	27	23	26	23	21
9	52	40	33	28	48	37	31	26	33	27	24	28	24	21	24	21	19
10	49	37	30	25	45	34	28	24	30	25	21	26	22	19	23	19	17

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	2.2
10°-20°	158.6	6.5
20°-30°	230.1	9.5
30°-40°	242.6	10.0
40°-50°	214.7	8.8
50°-60°	171.4	7.0
60°-70°	116.4	4.8
70°-80°	59.6	2.4
80°-90°	15.3	0.6
90°-100°	25.9	1.1
100°-110°	82.3	3.4
110°-120°	140.9	5.8
120°-130°	185.3	7.6
130°-140°	208.0	8.5
140°-150°	204.0	8.4
150°-160°	171.1	7.0
160°-170°	113.5	4.7
170°-180°	39.7	1.6
0°-30°	443.2	18.2
0°-40°	685.8	28.2
0°-60°	1071.9	44.0
0°-90°	1263.2	51.9
90°-120°	249.2	10.2
90°-150°	846.5	34.8
90°-180°	1171.0	48.1
0°-180°	2434.0	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°	0	12	0	12	0	2
95°	18	22	18	22	18	21
105°	76	78	76	78	76	80
115°	141	141	141	141	141	140
125°	206	206	206	206	206	184
135°	266	269	266	269	266	206
145°	323	326	323	326	323	202
155°	369	372	369	372	369	170
165°	402	402	402	402	402	113
175°	418	417	418	417	418	40
180°	419	419	419	419	419	

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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°	0.4	1.3	2.3	3.2	4.1	4.6	5.5	7.2	8.9	10.7	12.4
92.5°	7.8	8.4	9.0	9.7	10.3	10.6	10.6	10.7	10.8	10.9	11.0
95°	18.4	19.2	20.0	20.7	21.5	21.9	22.0	22.1	22.3	22.4	22.6
97.5°	30.7	31.4	32.1	32.8	33.5	33.9	34.1	34.4	34.7	35.0	35.3
100°	44.9	45.5	46.1	46.8	47.4	47.7	47.8	48.1	48.3	48.6	48.8
102.5°	59.7	60.2	60.6	61.1	61.6	61.8	62.0	62.3	62.6	63.0	63.3
105°	76.0	76.2	76.4	76.7	76.9	77.0	77.1	77.2	77.4	77.5	77.7
107.5°	92.2	92.5	92.8	93.1	93.4	93.6	93.6	93.6	93.6	93.6	93.6
110°	107.8	108.3	108.7	109.2	109.7	109.9	109.9	109.9	109.9	109.9	109.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	124.7	125.2	125.7	126.2	126.7	126.9	126.9	126.8	126.7	126.6	126.5
115°	141.4	141.9	142.3	142.8	143.3	143.5	143.4	143.3	143.1	143.0	142.8
117.5°	158.0	158.6	159.2	159.9	160.5	160.8	160.6	160.2	159.8	159.4	159.0
120°	174.6	175.2	175.8	176.5	177.1	177.4	177.1	176.5	175.8	175.2	174.6
122.5°	189.8	190.6	191.4	192.1	192.9	193.3	193.1	192.7	192.3	191.9	191.5
125°	205.7	206.4	207.1	207.8	208.5	208.9	208.8	208.5	208.3	208.0	207.8
127.5°	221.2	222.1	222.9	223.8	224.7	225.1	224.9	224.6	224.3	224.0	223.7
130°	235.7	236.7	237.7	238.8	239.8	240.3	240.2	240.1	239.9	239.8	239.6
132.5°	252.0	252.8	253.6	254.3	255.1	255.5	255.5	255.6	255.7	255.8	255.9
135°	266.1	267.0	267.8	268.7	269.6	270.0	270.1	270.2	270.4	270.5	270.7
137.5°	281.7	282.4	283.1	283.8	284.5	284.8	284.9	285.0	285.2	285.3	285.5
140°	295.4	296.1	296.8	297.5	298.2	298.6	298.8	299.2	299.6	300.0	300.4
142.5°	309.6	310.3	311.0	311.7	312.4	312.8	312.9	313.1	313.4	313.6	313.8
145°	323.0	323.6	324.1	324.7	325.2	325.5	325.7	326.2	326.7	327.1	327.6
147.5°	335.0	335.7	336.4	337.1	337.8	338.2	338.4	338.7	339.0	339.3	339.6
150°	347.4	347.9	348.3	348.8	349.3	349.5	349.7	350.0	350.3	350.6	350.9
152.5°	358.3	358.8	359.3	359.8	360.3	360.5	360.7	361.1	361.4	361.8	362.2
155°	369.3	369.5	369.8	370.0	370.3	370.4	370.5	370.7	371.0	371.2	371.4
157.5°	378.8	379.0	379.1	379.3	379.4	379.5	379.6	379.8	379.9	380.1	380.3
160°	387.3	387.5	387.6	387.8	387.9	388.0	388.0	388.1	388.2	388.3	388.4
162.5°	395.1	395.1	395.1	395.1	395.1	395.1	395.1	395.2	395.3	395.3	395.4
165°	401.8	401.7	401.7	401.6	401.5	401.5	401.5	401.5	401.5	401.5	401.5
167.5°	407.8	407.6	407.4	407.1	406.9	406.8	406.8	406.8	406.8	406.8	406.8
170°	412.4	412.2	412.0	411.7	411.5	411.4	411.4	411.3	411.2	411.1	411.0
172.5°	415.6	415.4	415.1	414.9	414.6	414.5	414.5	414.4	414.3	414.3	414.2
175°	418.1	417.9	417.6	417.4	417.1	417.0	416.9	416.8	416.6	416.5	416.3
177.5°	419.5	419.3	419.0	418.8	418.5	418.4	418.3	418.2	418.0	417.9	417.7
180°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8

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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°	12.2	12.1	11.9	11.8	11.7	11.7	11.8	11.9	11.9	12.0	11.9
92.5°	11.1	11.1	11.2	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
95°	22.6	22.6	22.6	22.6	22.6	22.5	22.4	22.2	22.1	21.9	22.1
97.5°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
100°	48.8	48.8	48.8	48.8	48.8	48.8	48.7	48.6	48.5	48.4	48.5
102.5°	63.4	63.4	63.5	63.6	63.6	63.6	63.5	63.4	63.4	63.3	63.4
105°	77.9	78.1	78.2	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5
107.5°	93.7	93.8	93.9	94.0	94.0	93.8	93.4	93.0	92.6	92.2	92.6
110°	109.9	109.9	109.9	109.9	109.9	109.8	109.5	109.3	109.0	108.8	109.0

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	126.3	126.1	125.8	125.6	125.5	125.4	125.2	125.1	124.9	124.7	124.9
115°	142.7	142.6	142.5	142.4	142.4	142.3	142.1	141.8	141.6	141.4	141.6
117.5°	158.8	158.6	158.3	158.1	158.0	157.9	157.6	157.4	157.1	156.9	157.1
120°	174.6	174.6	174.6	174.6	174.6	174.5	174.2	174.0	173.7	173.5	173.7
122.5°	191.3	191.1	190.8	190.6	190.5	190.4	190.3	190.1	190.0	189.8	190.0
125°	207.6	207.3	207.1	206.8	206.7	206.7	206.6	206.5	206.5	206.4	206.5
127.5°	223.4	223.1	222.8	222.5	222.3	222.2	221.9	221.7	221.4	221.2	221.4
130°	239.4	239.3	239.1	239.0	238.9	238.7	238.4	238.1	237.8	237.5	237.8
132.5°	255.5	255.1	254.7	254.3	254.1	254.0	253.7	253.5	253.2	253.0	253.2
135°	270.6	270.5	270.4	270.3	270.3	270.2	270.0	269.7	269.5	269.3	269.5
137.5°	285.4	285.4	285.3	285.2	285.2	285.0	284.7	284.4	284.1	283.8	284.1
140°	300.4	300.4	300.4	300.4	300.4	300.2	299.9	299.6	299.3	299.0	299.3
142.5°	313.9	314.0	314.1	314.2	314.2	314.0	313.7	313.4	313.1	312.8	313.1
145°	327.7	327.8	327.9	328.0	328.0	327.8	327.5	327.2	326.8	326.5	326.8
147.5°	339.8	339.9	340.1	340.2	340.3	340.1	339.8	339.5	339.2	338.9	339.2
150°	351.1	351.4	351.6	351.9	352.0	351.9	351.6	351.4	351.1	350.9	351.1
152.5°	362.5	362.8	363.1	363.4	363.6	363.4	363.1	362.8	362.5	362.2	362.5
155°	371.8	372.2	372.6	373.0	373.2	373.1	372.8	372.6	372.3	372.1	372.3
157.5°	380.8	381.4	381.9	382.4	382.7	382.5	382.1	381.8	381.4	381.0	381.4
160°	388.9	389.3	389.8	390.3	390.5	390.3	390.0	389.7	389.4	389.1	389.4
162.5°	396.0	396.5	397.1	397.6	397.9	397.7	397.3	397.0	396.6	396.2	396.6
165°	402.0	402.6	403.1	403.6	403.9	403.7	403.3	403.0	402.6	402.2	402.6
167.5°	407.3	407.9	408.4	408.9	409.2	409.0	408.6	408.3	407.9	407.5	407.9
170°	411.6	412.1	412.7	413.2	413.5	413.3	412.8	412.3	411.9	411.4	411.9
172.5°	414.8	415.3	415.9	416.4	416.7	416.5	416.0	415.5	415.0	414.5	415.0
175°	416.9	417.4	418.0	418.5	418.8	418.6	418.1	417.6	417.2	416.7	417.2
177.5°	418.2	418.6	419.1	419.6	419.8	419.6	419.1	418.6	418.2	417.7	418.2
180°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

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°	11.9	11.8	11.7	11.7	11.8	11.9	12.1	12.2	12.4	10.7	8.9
92.5°	11.3	11.3	11.3	11.3	11.3	11.2	11.1	11.1	11.0	10.9	10.8
95°	22.2	22.4	22.5	22.6	22.6	22.6	22.6	22.6	22.6	22.4	22.3
97.5°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.0	34.7
100°	48.6	48.7	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.6	48.3
102.5°	63.4	63.5	63.6	63.6	63.6	63.5	63.4	63.4	63.3	63.0	62.6
105°	78.5	78.5	78.5	78.5	78.4	78.2	78.1	77.9	77.7	77.5	77.4
107.5°	93.0	93.4	93.8	94.0	94.0	93.9	93.8	93.7	93.6	93.6	93.6
110°	109.3	109.5	109.8	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9



TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	125.1	125.2	125.4	125.5	125.6	125.8	126.1	126.3	126.5	126.6	126.7
115°	141.8	142.1	142.3	142.4	142.4	142.5	142.6	142.7	142.8	143.0	143.1
117.5°	157.4	157.6	157.9	158.0	158.1	158.3	158.6	158.8	159.0	159.4	159.8
120°	174.0	174.2	174.5	174.6	174.6	174.6	174.6	174.6	174.6	175.2	175.8
122.5°	190.1	190.3	190.4	190.5	190.6	190.8	191.1	191.3	191.5	191.9	192.3
125°	206.5	206.6	206.7	206.7	206.8	207.1	207.3	207.6	207.8	208.0	208.3
127.5°	221.7	221.9	222.2	222.3	222.5	222.8	223.1	223.4	223.7	224.0	224.3
130°	238.1	238.4	238.7	238.9	239.0	239.1	239.3	239.4	239.6	239.8	239.9
132.5°	253.5	253.7	254.0	254.1	254.3	254.7	255.1	255.5	255.9	255.8	255.7
135°	269.7	270.0	270.2	270.3	270.3	270.4	270.5	270.6	270.7	270.5	270.4
137.5°	284.4	284.7	285.0	285.2	285.2	285.3	285.4	285.4	285.5	285.3	285.2
140°	299.6	299.9	300.2	300.4	300.4	300.4	300.4	300.4	300.4	300.0	299.6
142.5°	313.4	313.7	314.0	314.2	314.2	314.1	314.0	313.9	313.8	313.6	313.4
145°	327.2	327.5	327.8	328.0	328.0	327.9	327.8	327.7	327.6	327.1	326.7
147.5°	339.5	339.8	340.1	340.3	340.2	340.1	339.9	339.8	339.6	339.3	339.0
150°	351.4	351.6	351.9	352.0	351.9	351.6	351.4	351.1	350.9	350.6	350.3
152.5°	362.8	363.1	363.4	363.6	363.4	363.1	362.8	362.5	362.2	361.8	361.4
155°	372.6	372.8	373.1	373.2	373.0	372.6	372.2	371.8	371.4	371.2	371.0
157.5°	381.8	382.1	382.5	382.7	382.4	381.9	381.4	380.8	380.3	380.1	379.9
160°	389.7	390.0	390.3	390.5	390.3	389.8	389.3	388.9	388.4	388.3	388.2
162.5°	397.0	397.3	397.7	397.9	397.6	397.1	396.5	396.0	395.4	395.3	395.3
165°	403.0	403.3	403.7	403.9	403.6	403.1	402.6	402.0	401.5	401.5	401.5
167.5°	408.3	408.6	409.0	409.2	408.9	408.4	407.9	407.3	406.8	406.8	406.8
170°	412.3	412.8	413.3	413.5	413.2	412.7	412.1	411.6	411.0	411.1	411.2
172.5°	415.5	416.0	416.5	416.7	416.4	415.9	415.3	414.8	414.2	414.3	414.3
175°	417.6	418.1	418.6	418.8	418.5	418.0	417.4	416.9	416.3	416.5	416.6
177.5°	418.6	419.1	419.6	419.8	419.6	419.1	418.6	418.2	417.7	417.9	418.0
180°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

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°	7.2	5.5	4.6	4.1	3.2	2.3	1.3	0.4	1.3	2.3	3.2
92.5°	10.7	10.6	10.6	10.3	9.7	9.0	8.4	7.8	8.4	9.0	9.7
95°	22.1	22.0	21.9	21.5	20.7	20.0	19.2	18.4	19.2	20.0	20.7
97.5°	34.4	34.1	33.9	33.5	32.8	32.1	31.4	30.7	31.4	32.1	32.8
100°	48.1	47.8	47.7	47.4	46.8	46.1	45.5	44.9	45.5	46.1	46.8
102.5°	62.3	62.0	61.8	61.6	61.1	60.6	60.2	59.7	60.2	60.6	61.1
105°	77.2	77.1	77.0	76.9	76.7	76.4	76.2	76.0	76.2	76.4	76.7
107.5°	93.6	93.6	93.6	93.4	93.1	92.8	92.5	92.2	92.5	92.8	93.1
110°	109.9	109.9	109.9	109.7	109.2	108.7	108.3	107.8	108.3	108.7	109.2

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	126.8	126.9	126.9	126.7	126.2	125.7	125.2	124.7	125.2	125.7	126.2
115°	143.3	143.4	143.5	143.3	142.8	142.3	141.9	141.4	141.9	142.3	142.8
117.5°	160.2	160.6	160.8	160.5	159.9	159.2	158.6	158.0	158.6	159.2	159.9
120°	176.5	177.1	177.4	177.1	176.5	175.8	175.2	174.6	175.2	175.8	176.5
122.5°	192.7	193.1	193.3	192.9	192.1	191.4	190.6	189.8	190.6	191.4	192.1
125°	208.5	208.8	208.9	208.5	207.8	207.1	206.4	205.7	206.4	207.1	207.8
127.5°	224.6	224.9	225.1	224.7	223.8	222.9	222.1	221.2	222.1	222.9	223.8
130°	240.1	240.2	240.3	239.8	238.8	237.7	236.7	235.7	236.7	237.7	238.8
132.5°	255.6	255.5	255.5	255.1	254.3	253.6	252.8	252.0	252.8	253.6	254.3
135°	270.2	270.1	270.0	269.6	268.7	267.8	267.0	266.1	267.0	267.8	268.7
137.5°	285.0	284.9	284.8	284.5	283.8	283.1	282.4	281.7	282.4	283.1	283.8
140°	299.2	298.8	298.6	298.2	297.5	296.8	296.1	295.4	296.1	296.8	297.5
142.5°	313.1	312.9	312.8	312.4	311.7	311.0	310.3	309.6	310.3	311.0	311.7
145°	326.2	325.7	325.5	325.2	324.7	324.1	323.6	323.0	323.6	324.1	324.7
147.5°	338.7	338.4	338.2	337.8	337.1	336.4	335.7	335.0	335.7	336.4	337.1
150°	350.0	349.7	349.5	349.3	348.8	348.3	347.9	347.4	347.9	348.3	348.8
152.5°	361.1	360.7	360.5	360.3	359.8	359.3	358.8	358.3	358.8	359.3	359.8
155°	370.7	370.5	370.4	370.3	370.0	369.8	369.5	369.3	369.5	369.8	370.0
157.5°	379.8	379.6	379.5	379.4	379.3	379.1	379.0	378.8	379.0	379.1	379.3
160°	388.1	388.0	388.0	387.9	387.8	387.6	387.5	387.3	387.5	387.6	387.8
162.5°	395.2	395.1	395.1	395.1	395.1	395.1	395.1	395.1	395.1	395.1	395.1
165°	401.5	401.5	401.5	401.5	401.6	401.7	401.7	401.8	401.7	401.7	401.6
167.5°	406.8	406.8	406.8	406.9	407.1	407.4	407.6	407.8	407.6	407.4	407.1
170°	411.3	411.4	411.4	411.5	411.7	412.0	412.2	412.4	412.2	412.0	411.7
172.5°	414.4	414.5	414.5	414.6	414.9	415.1	415.4	415.6	415.4	415.1	414.9
175°	416.8	416.9	417.0	417.1	417.4	417.6	417.9	418.1	417.9	417.6	417.4
177.5°	418.2	418.3	418.4	418.5	418.8	419.0	419.3	419.5	419.3	419.0	418.8
180°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

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°	4.1	4.6	5.5	7.2	8.9	10.7	12.4	12.2	12.1	11.9	11.8
92.5°	10.3	10.6	10.6	10.7	10.8	10.9	11.0	11.1	11.1	11.2	11.3
95°	21.5	21.9	22.0	22.1	22.3	22.4	22.6	22.6	22.6	22.6	22.6
97.5°	33.5	33.9	34.1	34.4	34.7	35.0	35.3	35.3	35.3	35.3	35.3
100°	47.4	47.7	47.8	48.1	48.3	48.6	48.8	48.8	48.8	48.8	48.8
102.5°	61.6	61.8	62.0	62.3	62.6	63.0	63.3	63.4	63.4	63.5	63.6
105°	76.9	77.0	77.1	77.2	77.4	77.5	77.7	77.9	78.1	78.2	78.4
107.5°	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.7	93.8	93.9	94.0
110°	109.7	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	126.7	126.9	126.9	126.8	126.7	126.6	126.5	126.3	126.1	125.8	125.6
115°	143.3	143.5	143.4	143.3	143.1	143.0	142.8	142.7	142.6	142.5	142.4
117.5°	160.5	160.8	160.6	160.2	159.8	159.4	159.0	158.8	158.6	158.3	158.1
120°	177.1	177.4	177.1	176.5	175.8	175.2	174.6	174.6	174.6	174.6	174.6
122.5°	192.9	193.3	193.1	192.7	192.3	191.9	191.5	191.3	191.1	190.8	190.6
125°	208.5	208.9	208.8	208.5	208.3	208.0	207.8	207.6	207.3	207.1	206.8
127.5°	224.7	225.1	224.9	224.6	224.3	224.0	223.7	223.4	223.1	222.8	222.5
130°	239.8	240.3	240.2	240.1	239.9	239.8	239.6	239.4	239.3	239.1	239.0
132.5°	255.1	255.5	255.5	255.6	255.7	255.8	255.9	255.5	255.1	254.7	254.3
135°	269.6	270.0	270.1	270.2	270.4	270.5	270.7	270.6	270.5	270.4	270.3
137.5°	284.5	284.8	284.9	285.0	285.2	285.3	285.5	285.4	285.4	285.3	285.2
140°	298.2	298.6	298.8	299.2	299.6	300.0	300.4	300.4	300.4	300.4	300.4
142.5°	312.4	312.8	312.9	313.1	313.4	313.6	313.8	313.9	314.0	314.1	314.2
145°	325.2	325.5	325.7	326.2	326.7	327.1	327.6	327.7	327.8	327.9	328.0
147.5°	337.8	338.2	338.4	338.7	339.0	339.3	339.6	339.8	339.9	340.1	340.2
150°	349.3	349.5	349.7	350.0	350.3	350.6	350.9	351.1	351.4	351.6	351.9
152.5°	360.3	360.5	360.7	361.1	361.4	361.8	362.2	362.5	362.8	363.1	363.4
155°	370.3	370.4	370.5	370.7	371.0	371.2	371.4	371.8	372.2	372.6	373.0
157.5°	379.4	379.5	379.6	379.8	379.9	380.1	380.3	380.8	381.4	381.9	382.4
160°	387.9	388.0	388.0	388.1	388.2	388.3	388.4	388.9	389.3	389.8	390.3
162.5°	395.1	395.1	395.1	395.2	395.3	395.3	395.4	396.0	396.5	397.1	397.6
165°	401.5	401.5	401.5	401.5	401.5	401.5	401.5	402.0	402.6	403.1	403.6
167.5°	406.9	406.8	406.8	406.8	406.8	406.8	406.8	407.3	407.9	408.4	408.9
170°	411.5	411.4	411.4	411.3	411.2	411.1	411.0	411.6	412.1	412.7	413.2
172.5°	414.6	414.5	414.5	414.4	414.3	414.3	414.2	414.8	415.3	415.9	416.4
175°	417.1	417.0	416.9	416.8	416.6	416.5	416.3	416.9	417.4	418.0	418.5
177.5°	418.5	418.4	418.3	418.2	418.0	417.9	417.7	418.2	418.6	419.1	419.6
180°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

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°	11.7	11.7	11.8	11.9	11.9	12.0	11.9	11.9	11.8	11.7	11.7
92.5°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
95°	22.6	22.5	22.4	22.2	22.1	21.9	22.1	22.2	22.4	22.5	22.6
97.5°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
100°	48.8	48.8	48.7	48.6	48.5	48.4	48.5	48.6	48.7	48.8	48.8
102.5°	63.6	63.6	63.5	63.4	63.4	63.3	63.4	63.4	63.5	63.6	63.6
105°	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
107.5°	94.0	93.8	93.4	93.0	92.6	92.2	92.6	93.0	93.4	93.8	94.0
110°	109.9	109.8	109.5	109.3	109.0	108.8	109.0	109.3	109.5	109.8	109.9

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	125.5	125.4	125.2	125.1	124.9	124.7	124.9	125.1	125.2	125.4	125.5
115°	142.4	142.3	142.1	141.8	141.6	141.4	141.6	141.8	142.1	142.3	142.4
117.5°	158.0	157.9	157.6	157.4	157.1	156.9	157.1	157.4	157.6	157.9	158.0
120°	174.6	174.5	174.2	174.0	173.7	173.5	173.7	174.0	174.2	174.5	174.6
122.5°	190.5	190.4	190.3	190.1	190.0	189.8	190.0	190.1	190.3	190.4	190.5
125°	206.7	206.7	206.6	206.5	206.5	206.4	206.5	206.5	206.6	206.7	206.7
127.5°	222.3	222.2	221.9	221.7	221.4	221.2	221.4	221.7	221.9	222.2	222.3
130°	238.9	238.7	238.4	238.1	237.8	237.5	237.8	238.1	238.4	238.7	238.9
132.5°	254.1	254.0	253.7	253.5	253.2	253.0	253.2	253.5	253.7	254.0	254.1
135°	270.3	270.2	270.0	269.7	269.5	269.3	269.5	269.7	270.0	270.2	270.3
137.5°	285.2	285.0	284.7	284.4	284.1	283.8	284.1	284.4	284.7	285.0	285.2
140°	300.4	300.2	299.9	299.6	299.3	299.0	299.3	299.6	299.9	300.2	300.4
142.5°	314.2	314.0	313.7	313.4	313.1	312.8	313.1	313.4	313.7	314.0	314.2
145°	328.0	327.8	327.5	327.2	326.8	326.5	326.8	327.2	327.5	327.8	328.0
147.5°	340.3	340.1	339.8	339.5	339.2	338.9	339.2	339.5	339.8	340.1	340.3
150°	352.0	351.9	351.6	351.4	351.1	350.9	351.1	351.4	351.6	351.9	352.0
152.5°	363.6	363.4	363.1	362.8	362.5	362.2	362.5	362.8	363.1	363.4	363.6
155°	373.2	373.1	372.8	372.6	372.3	372.1	372.3	372.6	372.8	373.1	373.2
157.5°	382.7	382.5	382.1	381.8	381.4	381.0	381.4	381.8	382.1	382.5	382.7
160°	390.5	390.3	390.0	389.7	389.4	389.1	389.4	389.7	390.0	390.3	390.5
162.5°	397.9	397.7	397.3	397.0	396.6	396.2	396.6	397.0	397.3	397.7	397.9
165°	403.9	403.7	403.3	403.0	402.6	402.2	402.6	403.0	403.3	403.7	403.9
167.5°	409.2	409.0	408.6	408.3	407.9	407.5	407.9	408.3	408.6	409.0	409.2
170°	413.5	413.3	412.8	412.3	411.9	411.4	411.9	412.3	412.8	413.3	413.5
172.5°	416.7	416.5	416.0	415.5	415.0	414.5	415.0	415.5	416.0	416.5	416.7
175°	418.8	418.6	418.1	417.6	417.2	416.7	417.2	417.6	418.1	418.6	418.8
177.5°	419.8	419.6	419.1	418.6	418.2	417.7	418.2	418.6	419.1	419.6	419.8
180°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

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°	11.8	11.9	12.1	12.2	12.4	10.7	8.9	7.2	5.5	4.6	4.1
92.5°	11.3	11.2	11.1	11.1	11.0	10.9	10.8	10.7	10.6	10.6	10.3
95°	22.6	22.6	22.6	22.6	22.6	22.4	22.3	22.1	22.0	21.9	21.5
97.5°	35.3	35.3	35.3	35.3	35.3	35.0	34.7	34.4	34.1	33.9	33.5
100°	48.8	48.8	48.8	48.8	48.8	48.6	48.3	48.1	47.8	47.7	47.4
102.5°	63.6	63.5	63.4	63.4	63.3	63.0	62.6	62.3	62.0	61.8	61.6
105°	78.4	78.2	78.1	77.9	77.7	77.5	77.4	77.2	77.1	77.0	76.9
107.5°	94.0	93.9	93.8	93.7	93.6	93.6	93.6	93.6	93.6	93.6	93.4
110°	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.7

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	125.6	125.8	126.1	126.3	126.5	126.6	126.7	126.8	126.9	126.9	126.7
115°	142.4	142.5	142.6	142.7	142.8	143.0	143.1	143.3	143.4	143.5	143.3
117.5°	158.1	158.3	158.6	158.8	159.0	159.4	159.8	160.2	160.6	160.8	160.5
120°	174.6	174.6	174.6	174.6	174.6	175.2	175.8	176.5	177.1	177.4	177.1
122.5°	190.6	190.8	191.1	191.3	191.5	191.9	192.3	192.7	193.1	193.3	192.9
125°	206.8	207.1	207.3	207.6	207.8	208.0	208.3	208.5	208.8	208.9	208.5
127.5°	222.5	222.8	223.1	223.4	223.7	224.0	224.3	224.6	224.9	225.1	224.7
130°	239.0	239.1	239.3	239.4	239.6	239.8	239.9	240.1	240.2	240.3	239.8
132.5°	254.3	254.7	255.1	255.5	255.9	255.8	255.7	255.6	255.5	255.5	255.1
135°	270.3	270.4	270.5	270.6	270.7	270.5	270.4	270.2	270.1	270.0	269.6
137.5°	285.2	285.3	285.4	285.4	285.5	285.3	285.2	285.0	284.9	284.8	284.5
140°	300.4	300.4	300.4	300.4	300.4	300.0	299.6	299.2	298.8	298.6	298.2
142.5°	314.2	314.1	314.0	313.9	313.8	313.6	313.4	313.1	312.9	312.8	312.4
145°	328.0	327.9	327.8	327.7	327.6	327.1	326.7	326.2	325.7	325.5	325.2
147.5°	340.2	340.1	339.9	339.8	339.6	339.3	339.0	338.7	338.4	338.2	337.8
150°	351.9	351.6	351.4	351.1	350.9	350.6	350.3	350.0	349.7	349.5	349.3
152.5°	363.4	363.1	362.8	362.5	362.2	361.8	361.4	361.1	360.7	360.5	360.3
155°	373.0	372.6	372.2	371.8	371.4	371.2	371.0	370.7	370.5	370.4	370.3
157.5°	382.4	381.9	381.4	380.8	380.3	380.1	379.9	379.8	379.6	379.5	379.4
160°	390.3	389.8	389.3	388.9	388.4	388.3	388.2	388.1	388.0	388.0	387.9
162.5°	397.6	397.1	396.5	396.0	395.4	395.3	395.3	395.2	395.1	395.1	395.1
165°	403.6	403.1	402.6	402.0	401.5	401.5	401.5	401.5	401.5	401.5	401.5
167.5°	408.9	408.4	407.9	407.3	406.8	406.8	406.8	406.8	406.8	406.8	406.9
170°	413.2	412.7	412.1	411.6	411.0	411.1	411.2	411.3	411.4	411.4	411.5
172.5°	416.4	415.9	415.3	414.8	414.2	414.3	414.3	414.4	414.5	414.5	414.6
175°	418.5	418.0	417.4	416.9	416.3	416.5	416.6	416.8	416.9	417.0	417.1
177.5°	419.6	419.1	418.6	418.2	417.7	417.9	418.0	418.2	418.3	418.4	418.5
180°	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8	418.8

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

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°	3.2	2.3	1.3	0.4
92.5°	9.7	9.0	8.4	7.8
95°	20.7	20.0	19.2	18.4
97.5°	32.8	32.1	31.4	30.7
100°	46.8	46.1	45.5	44.9
102.5°	61.1	60.6	60.2	59.7
105°	76.7	76.4	76.2	76.0
107.5°	93.1	92.8	92.5	92.2
110°	109.2	108.7	108.3	107.8



TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	126.2	125.7	125.2	124.7
115°	142.8	142.3	141.9	141.4
117.5°	159.9	159.2	158.6	158.0
120°	176.5	175.8	175.2	174.6
122.5°	192.1	191.4	190.6	189.8
125°	207.8	207.1	206.4	205.7
127.5°	223.8	222.9	222.1	221.2
130°	238.8	237.7	236.7	235.7
132.5°	254.3	253.6	252.8	252.0
135°	268.7	267.8	267.0	266.1
137.5°	283.8	283.1	282.4	281.7
140°	297.5	296.8	296.1	295.4
142.5°	311.7	311.0	310.3	309.6
145°	324.7	324.1	323.6	323.0
147.5°	337.1	336.4	335.7	335.0
150°	348.8	348.3	347.9	347.4
152.5°	359.8	359.3	358.8	358.3
155°	370.0	369.8	369.5	369.3
157.5°	379.3	379.1	379.0	378.8
160°	387.8	387.6	387.5	387.3
162.5°	395.1	395.1	395.1	395.1
165°	401.6	401.7	401.7	401.8
167.5°	407.1	407.4	407.6	407.8
170°	411.7	412.0	412.2	412.4
172.5°	414.9	415.1	415.4	415.6
175°	417.4	417.6	417.9	418.1
177.5°	418.8	419.0	419.3	419.5
180°	418.8	418.8	418.8	418.8

TEST NUMBER: P998181

CATALOG NUMBER: SA2XXDIP-B290D330UB40-4F0-XX-W2A-A1

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	13.67	14.52	14.62	15.48	16.72	11.17	12.01	12.11	12.97	14.22
	3H	14.48	15.24	15.44	16.21	17.48	12.51	13.27	13.47	14.23	15.50
	4H	14.65	15.37	15.63	16.34	17.62	12.97	13.69	13.95	14.66	15.94
	6H	14.70	15.35	15.68	16.33	17.62	13.28	13.94	14.26	14.91	16.20
	8H	14.68	15.30	15.67	16.29	17.58	13.36	13.99	14.35	14.98	16.27
	12H	14.64	15.23	15.63	16.22	17.53	13.40	14.00	14.40	14.99	16.30
4H	2H	13.71	14.43	14.69	15.40	16.68	11.61	12.32	12.59	13.30	14.58
	3H	14.69	15.29	15.68	16.29	17.58	13.07	13.66	14.06	14.67	15.96
	4H	14.97	15.51	15.96	16.51	17.82	13.60	14.15	14.60	15.14	16.46
	6H	15.10	15.56	16.11	16.58	17.90	13.98	14.45	14.99	15.47	16.78
	8H	15.10	15.53	16.10	16.54	17.87	14.09	14.53	15.10	15.54	16.87
	12H	15.06	15.45	16.09	16.48	17.81	14.15	14.54	15.18	15.57	16.90
8H	4H	14.98	15.41	15.99	16.42	17.75	13.74	14.18	14.75	15.19	16.52
	6H	15.15	15.51	16.19	16.57	17.89	14.18	14.54	15.21	15.59	16.92
	8H	15.18	15.50	16.23	16.54	17.88	14.33	14.64	15.37	15.68	17.03
	12H	15.17	15.45	16.21	16.48	17.87	14.42	14.70	15.47	15.73	17.12
12H	4H	14.93	15.32	15.96	16.35	17.68	13.72	14.11	14.75	15.14	16.47
	6H	15.13	15.45	16.17	16.49	17.83	14.18	14.49	15.22	15.53	16.88
	8H	15.16	15.44	16.21	16.48	17.86	14.34	14.61	15.38	15.65	17.04