

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: P998250

Luminaire Tested: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998250
REPORT IS A COMBINATION OF REPORTS P983990 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

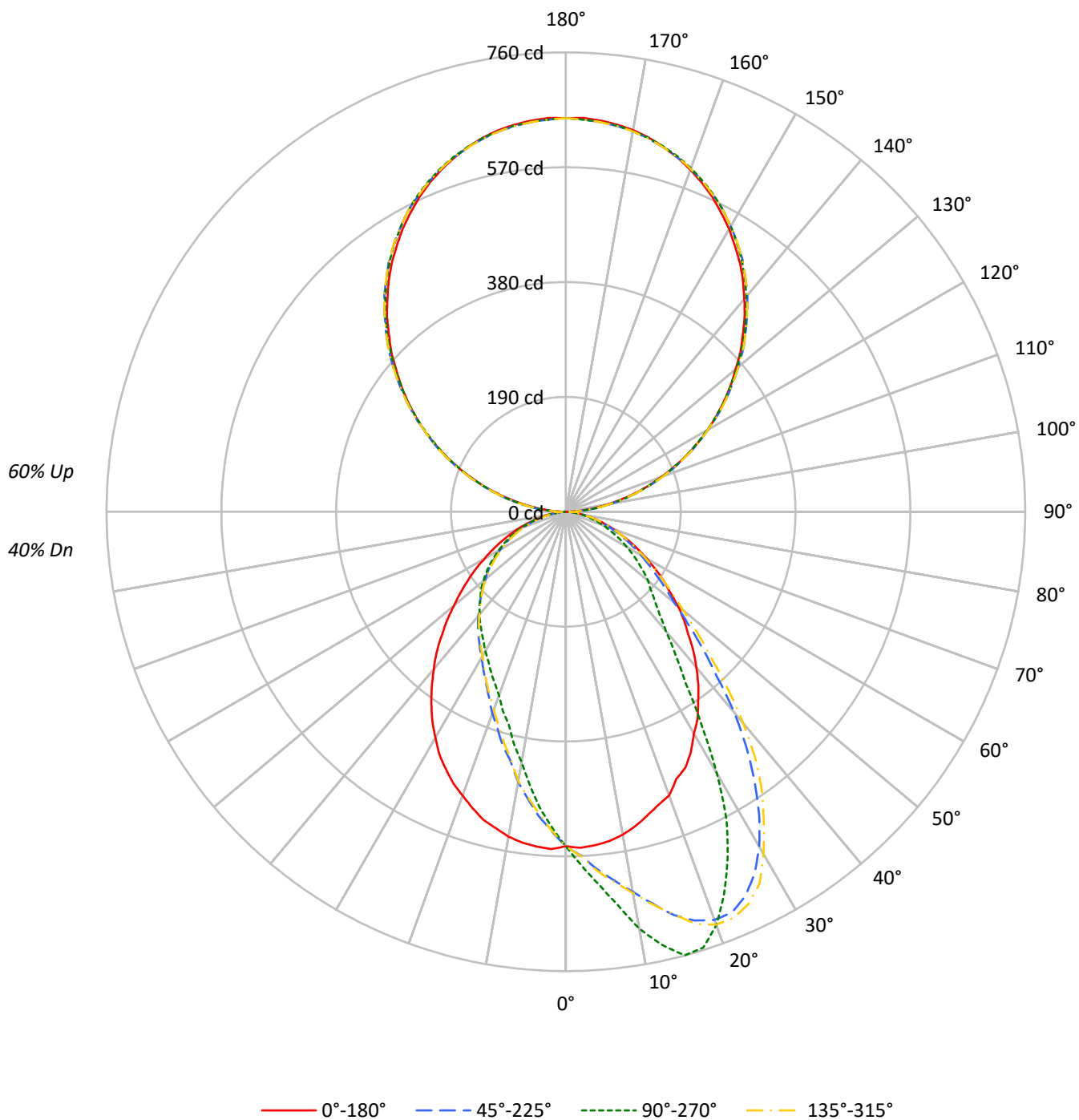
Lumens per Lamp: N/A
Luminaire Lumens: 3043.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 28.4
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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	40
2	88	81	75	70	80	74	69	64	61	57	54	49	46	44	38	36	35
3	80	71	64	59	73	65	59	54	54	49	46	43	40	38	34	32	30
4	74	63	56	50	67	58	51	46	48	43	39	39	35	33	30	28	26
5	68	56	49	43	61	52	45	40	43	38	34	35	31	29	28	25	23
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	22	20
7	58	46	38	33	52	42	36	31	35	30	27	29	25	22	23	20	18
8	54	42	34	29	49	38	32	27	32	27	24	27	23	20	21	19	17
9	50	38	31	26	45	35	29	24	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	32	26	22	27	22	19	23	19	16	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8760	8760	8760	8760
5°	8781	9341	8815	7431
10°	8680	10197	8734	6127
15°	8468	10755	8587	5160
20°	8337	10098	8337	4486
25°	8071	8676	8107	4012
30°	7634	6819	7780	3633
35°	7247	4716	7367	3324
40°	6800	3561	6879	3078
45°	6253	2926	6355	2812
50°	5778	2568	5787	2574
55°	5236	2188	5271	2316
60°	4661	1828	4725	2021
65°	4145	1487	4220	1726
70°	3629	1166	3720	1392
75°	3043	846	3166	1009
80°	2379	536	2547	599
85°	1568	270	1681	200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.7	1.7
10°-20°	153.4	5.0
20°-30°	222.7	7.3
30°-40°	234.7	7.7
40°-50°	207.7	6.8
50°-60°	165.9	5.5
60°-70°	112.7	3.7
70°-80°	57.6	1.9
80°-90°	15.5	0.5
90°-100°	40.3	1.3
100°-110°	128.0	4.2
110°-120°	219.1	7.2
120°-130°	288.1	9.5
130°-140°	323.4	10.6
140°-150°	317.1	10.4
150°-160°	266.0	8.7
160°-170°	176.4	5.8
170°-180°	61.7	2.0
0°-30°	428.8	14.1
0°-40°	663.5	21.8
0°-60°	1037.1	34.1
0°-90°	1222.9	40.2
90°-120°	387.4	12.7
90°-150°	1316.0	43.2
90°-180°	1820.0	59.8
0°-180°	3043.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	553	553	553	553	553	
5°	554	618	556	492	554	53
15°	520	760	528	364	520	147
25°	468	633	470	293	468	214
35°	382	345	388	243	382	239
45°	286	208	291	200	286	222
55°	196	146	198	154	196	175
65°	117	90	119	104	117	116
75°	54	44	57	53	54	58
85°	11	12	12	8	11	13
90°	0	19	0	19	0	2
95°	29	34	29	34	29	32
105°	118	122	118	122	118	125
115°	220	220	220	220	220	217
125°	320	321	320	321	320	286
135°	414	419	414	419	414	320
145°	502	508	502	508	502	314
155°	574	578	574	578	574	264
165°	625	625	625	625	625	176
175°	650	648	650	648	650	62
180°	651	651	651	651	651	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	556.4	557.7	559.8	560.2	564.5	567.9	571.7	571.7	573.0	572.6	569.2
5°	553.8	557.7	563.2	567.9	575.5	578.9	584.0	587.9	591.3	593.8	593.4
7.5°	549.6	556.4	564.5	573.4	583.6	589.6	596.8	603.6	608.3	612.5	615.5
10°	542.4	553.8	564.9	576.8	590.0	598.1	606.6	615.5	622.8	630.8	638.5
12.5°	532.6	549.2	562.8	578.5	594.7	603.6	617.2	624.0	638.1	658.5	664.0
15°	520.2	542.8	555.5	575.5	596.8	604.0	622.8	633.8	662.7	675.5	690.8
17.5°	508.7	533.8	550.9	573.8	594.7	608.7	627.0	649.5	673.8	692.1	709.1
20°	499.4	523.6	544.1	569.6	596.0	613.8	633.0	660.2	686.6	705.3	718.5
22.5°	478.1	509.2	533.0	561.5	593.4	618.1	636.4	666.1	694.6	706.1	717.6
25°	467.5	494.3	521.9	554.3	591.7	621.0	636.8	670.0	695.1	699.3	701.9
27.5°	447.9	478.1	510.5	547.5	591.3	615.9	635.9	666.1	686.1	683.2	675.5
30°	423.7	460.7	496.4	536.4	585.3	612.1	630.8	658.5	668.7	653.4	639.8
32.5°	405.8	440.7	480.2	526.6	578.5	604.0	622.3	644.0	646.1	618.5	595.5
35°	381.6	420.3	464.9	513.9	567.0	590.0	607.0	620.2	610.0	571.3	544.1
37.5°	359.9	398.2	445.8	495.6	551.3	573.8	587.4	589.6	564.5	530.4	490.5
40°	336.0	375.6	425.4	477.7	533.8	553.4	561.9	555.5	519.4	479.8	433.5
42.5°	312.2	351.4	405.0	458.6	511.7	528.3	531.7	514.3	470.0	423.7	370.1
45°	286.3	327.1	380.7	434.7	486.2	495.6	496.0	470.9	418.6	370.1	320.3
47.5°	265.0	302.9	356.0	410.1	453.5	459.8	457.3	428.4	371.4	316.9	273.5
50°	241.6	277.8	330.5	383.7	420.7	422.4	416.0	374.8	319.0	269.3	234.8
52.5°	216.5	253.1	301.6	352.6	385.8	383.3	370.9	326.7	274.4	233.1	206.7
55°	196.5	228.9	274.4	324.1	347.5	340.3	326.7	281.6	240.3	205.5	182.5
57.5°	174.4	202.9	247.6	291.0	304.6	297.8	284.2	242.0	203.8	177.4	162.1
60°	153.6	179.5	218.6	254.8	265.4	258.2	242.5	204.6	177.0	154.8	143.4
62.5°	134.4	157.0	189.7	222.9	227.2	219.9	206.3	175.7	151.9	134.4	125.9
65°	116.6	137.8	164.2	189.3	193.1	185.5	171.4	149.3	129.3	118.3	110.2
67.5°	99.1	116.1	139.5	157.8	159.9	152.7	141.2	123.4	111.0	99.1	93.2
70°	83.8	96.6	114.9	129.7	130.6	123.8	117.8	101.7	92.3	83.8	79.1
72.5°	68.9	77.8	91.9	102.9	103.4	99.1	93.6	83.4	75.3	69.3	64.7
75°	54.4	62.1	70.6	80.4	80.0	76.6	72.3	65.9	59.1	55.3	53.2
77.5°	41.7	46.4	53.2	59.6	59.6	57.9	55.3	50.6	46.4	42.5	40.4
80°	29.8	32.8	38.3	40.4	41.3	40.8	38.7	35.3	33.6	30.6	29.8
82.5°	19.1	21.3	23.8	25.9	27.2	26.4	25.9	24.2	21.7	20.8	20.0
85°	11.1	11.9	13.2	14.5	14.9	14.5	15.3	14.0	12.8	12.8	12.3
87.5°	4.7	5.1	6.0	6.0	6.4	6.4	6.0	6.4	6.4	6.0	5.5
90°	0.5	2.0	3.4	4.9	6.4	7.1	8.4	11.1	13.8	16.5	19.2
92.5°	12.1	13.1	14.1	15.0	16.0	16.5	16.6	16.7	16.8	16.9	17.0
95°	28.6	29.8	31.0	32.3	33.5	34.1	34.2	34.5	34.7	35.0	35.2
97.5°	47.8	48.9	50.0	51.1	52.2	52.7	52.9	53.4	53.9	54.4	54.9
100°	69.8	70.8	71.8	72.7	73.7	74.2	74.4	74.7	75.1	75.4	75.8
102.5°	92.8	93.5	94.3	95.0	95.7	96.1	96.3	96.8	97.3	97.8	98.3
105°	118.1	118.5	118.9	119.2	119.6	119.8	119.9	120.2	120.4	120.7	120.9
107.5°	143.4	143.9	144.4	144.9	145.4	145.6	145.6	145.6	145.6	145.6	145.6
110°	167.6	168.3	169.1	169.8	170.5	170.9	170.9	170.9	170.9	170.9	170.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	193.9	194.6	195.4	196.1	196.8	197.2	197.1	197.0	196.9	196.8	196.7
115°	219.8	220.5	221.3	222.0	222.7	223.1	223.0	222.7	222.5	222.2	222.0
117.5°	245.6	246.6	247.6	248.5	249.5	250.0	249.7	249.1	248.4	247.8	247.2
120°	271.4	272.4	273.4	274.3	275.3	275.8	275.3	274.3	273.4	272.4	271.4
122.5°	295.0	296.2	297.4	298.7	299.9	300.5	300.2	299.6	299.0	298.4	297.8
125°	319.7	320.8	321.9	323.0	324.1	324.7	324.5	324.1	323.8	323.4	323.0
127.5°	343.9	345.3	346.6	348.0	349.3	350.0	349.8	349.3	348.8	348.3	347.8
130°	366.4	368.0	369.6	371.2	372.8	373.6	373.5	373.2	373.0	372.7	372.5
132.5°	391.7	392.9	394.1	395.4	396.6	397.2	397.3	397.4	397.5	397.7	397.8
135°	413.7	415.0	416.4	417.7	419.0	419.7	419.8	420.1	420.3	420.6	420.8
137.5°	437.9	439.0	440.1	441.2	442.3	442.8	442.9	443.2	443.4	443.7	443.9
140°	459.3	460.4	461.5	462.6	463.7	464.2	464.5	465.1	465.8	466.4	467.0
142.5°	481.3	482.4	483.5	484.6	485.7	486.2	486.4	486.8	487.1	487.5	487.9
145°	502.1	503.0	503.8	504.7	505.6	506.0	506.4	507.1	507.8	508.6	509.3
147.5°	520.8	521.9	523.0	524.1	525.2	525.8	526.0	526.5	527.0	527.5	528.0
150°	540.1	540.8	541.5	542.2	542.9	543.3	543.5	544.0	544.5	545.0	545.5
152.5°	557.1	557.8	558.6	559.3	560.0	560.4	560.7	561.3	561.9	562.5	563.1
155°	574.1	574.5	574.9	575.2	575.6	575.8	576.0	576.3	576.7	577.0	577.4
157.5°	588.9	589.1	589.4	589.6	589.9	590.0	590.1	590.4	590.6	590.9	591.1
160°	602.1	602.3	602.6	602.8	603.1	603.2	603.3	603.4	603.5	603.7	603.8
162.5°	614.2	614.2	614.2	614.2	614.2	614.2	614.3	614.4	614.5	614.7	614.8
165°	624.7	624.6	624.4	624.3	624.2	624.1	624.1	624.1	624.1	624.1	624.1
167.5°	634.0	633.6	633.2	632.9	632.5	632.3	632.3	632.3	632.3	632.3	632.3
170°	641.1	640.7	640.4	640.0	639.7	639.5	639.4	639.3	639.2	639.0	638.9
172.5°	646.1	645.7	645.3	645.0	644.6	644.4	644.3	644.2	644.1	644.0	643.9
175°	649.9	649.5	649.2	648.8	648.5	648.3	648.2	647.9	647.7	647.4	647.2
177.5°	652.1	651.7	651.4	651.0	650.7	650.5	650.4	650.1	649.9	649.6	649.4
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	575.1	575.5	576.4	580.6	582.8	583.2	581.5	585.3	586.6	585.3	584.5
5°	602.3	604.9	610.0	615.5	615.1	615.5	618.1	620.6	621.5	618.1	619.3
7.5°	626.2	631.3	636.8	645.3	645.3	649.5	651.3	653.4	658.5	655.9	655.1
10°	653.4	660.2	670.4	684.0	684.4	688.7	692.9	699.7	701.9	700.2	701.0
12.5°	687.4	700.6	701.4	716.3	723.1	724.0	730.8	729.5	733.8	733.8	741.0
15°	702.3	722.7	734.2	748.7	752.9	747.8	753.3	759.3	759.7	759.7	759.3
17.5°	729.1	737.2	748.7	756.3	758.0	758.0	758.4	761.0	759.3	755.9	758.4
20°	734.6	738.0	742.3	741.4	742.3	738.0	733.8	729.5	729.9	727.8	734.2
22.5°	724.4	723.6	713.8	707.4	707.4	698.9	690.8	687.0	683.2	684.4	686.6
25°	698.9	685.7	673.8	664.4	662.3	648.7	637.6	634.2	627.9	633.0	633.8
27.5°	658.1	643.2	624.0	615.9	604.9	599.4	591.7	581.5	568.3	576.0	574.7
30°	614.2	592.1	576.4	556.8	539.4	538.1	523.6	506.6	499.8	499.8	503.6
32.5°	565.3	536.0	513.0	485.4	468.3	461.1	443.7	426.7	430.5	417.7	422.4
35°	508.3	469.6	440.7	413.9	401.1	392.6	370.1	360.7	350.5	344.6	355.6
37.5°	453.9	409.2	372.2	342.9	338.2	322.9	307.5	301.6	295.6	298.2	297.8
40°	387.5	348.0	314.8	291.8	283.7	276.5	266.3	259.1	255.2	257.4	257.8
42.5°	327.5	294.4	269.7	253.5	246.7	241.6	236.5	230.6	229.3	229.3	231.0
45°	281.2	253.9	237.4	224.2	220.3	216.5	212.7	210.1	209.3	207.6	208.9
47.5°	244.2	222.5	212.3	202.5	198.2	197.4	194.0	192.7	191.0	190.6	191.0
50°	213.1	199.5	190.1	184.6	181.6	180.4	178.7	176.1	175.3	177.4	176.5
52.5°	191.4	178.7	173.6	168.0	166.3	164.6	162.1	162.5	162.1	161.2	161.2
55°	169.7	161.6	156.5	152.3	151.9	150.2	148.0	147.2	146.8	145.9	147.2
57.5°	152.3	145.9	141.2	137.4	135.7	135.7	133.6	131.9	131.9	131.4	131.9
60°	134.8	128.5	125.5	121.7	120.4	120.0	118.7	117.8	116.6	116.6	116.6
62.5°	118.7	113.6	110.2	106.8	107.2	105.1	103.4	102.5	102.5	102.9	102.9
65°	103.4	100.0	95.7	92.7	91.9	91.5	90.6	90.2	88.9	89.8	89.8
67.5°	89.3	84.6	82.1	80.8	79.5	79.1	78.3	77.4	77.0	76.6	77.4
70°	75.3	71.5	69.3	68.5	67.2	66.8	66.4	65.1	65.5	65.9	66.4
72.5°	62.5	59.1	58.7	56.1	56.1	56.1	54.4	55.3	54.9	54.0	54.9
75°	49.3	47.6	46.8	45.5	45.9	45.5	45.1	43.8	43.8	44.2	44.7
77.5°	39.1	37.4	37.0	35.7	34.9	35.7	34.9	34.5	34.5	34.9	34.9
80°	28.9	28.1	26.8	26.8	26.8	26.4	26.4	26.4	25.9	25.5	25.9
82.5°	19.1	19.1	18.7	18.3	18.7	17.9	18.3	18.3	18.3	18.3	18.3
85°	12.3	11.9	11.9	11.5	11.5	11.5	11.9	11.1	11.1	11.5	11.5
87.5°	5.5	5.5	5.5	6.0	5.5	5.5	5.5	6.0	5.5	5.5	5.5
90°	19.0	18.7	18.5	18.2	18.1	18.2	18.3	18.4	18.6	18.7	18.6
92.5°	17.1	17.3	17.4	17.5	17.6	17.6	17.6	17.6	17.6	17.6	17.6
95°	35.2	35.2	35.2	35.2	35.2	35.1	34.8	34.6	34.3	34.1	34.3
97.5°	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
100°	75.8	75.8	75.8	75.8	75.8	75.7	75.6	75.5	75.4	75.3	75.4
102.5°	98.4	98.6	98.7	98.8	98.9	98.8	98.7	98.6	98.4	98.3	98.4
105°	121.1	121.4	121.6	121.9	122.0	122.0	122.0	122.0	122.0	122.0	122.0
107.5°	145.7	145.8	145.9	146.0	146.1	145.8	145.2	144.6	144.0	143.4	144.0
110°	170.9	170.9	170.9	170.9	170.9	170.7	170.3	170.0	169.6	169.2	169.6

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	196.3	195.9	195.6	195.2	195.0	194.9	194.6	194.4	194.1	193.9	194.1
115°	221.9	221.7	221.6	221.5	221.4	221.2	220.9	220.5	220.2	219.8	220.2
117.5°	246.8	246.5	246.1	245.8	245.6	245.4	245.0	244.7	244.3	243.9	244.3
120°	271.4	271.4	271.4	271.4	271.4	271.2	270.9	270.5	270.2	269.8	270.2
122.5°	297.4	297.0	296.7	296.3	296.1	296.0	295.7	295.5	295.2	295.0	295.2
125°	322.6	322.3	321.9	321.6	321.4	321.3	321.2	321.1	320.9	320.8	320.9
127.5°	347.3	346.8	346.3	345.8	345.6	345.4	345.0	344.7	344.3	343.9	344.3
130°	372.3	372.0	371.8	371.5	371.4	371.2	370.7	370.2	369.7	369.2	369.7
132.5°	397.2	396.6	395.9	395.3	395.0	394.8	394.5	394.1	393.8	393.4	393.8
135°	420.7	420.6	420.5	420.4	420.3	420.1	419.7	419.4	419.0	418.6	419.0
137.5°	443.8	443.7	443.6	443.5	443.4	443.2	442.7	442.2	441.7	441.2	441.7
140°	467.0	467.0	467.0	467.0	467.0	466.8	466.3	465.8	465.3	464.8	465.3
142.5°	488.0	488.1	488.2	488.3	488.4	488.2	487.7	487.2	486.7	486.2	486.7
145°	509.4	509.5	509.6	509.7	509.8	509.6	509.1	508.6	508.1	507.6	508.1
147.5°	528.2	528.5	528.7	529.0	529.1	528.9	528.4	527.9	527.4	526.9	527.4
150°	545.9	546.3	546.6	547.0	547.2	547.0	546.6	546.3	545.9	545.5	545.9
152.5°	563.6	564.1	564.6	565.1	565.3	565.1	564.6	564.1	563.6	563.1	563.6
155°	578.0	578.6	579.3	579.9	580.2	580.0	579.6	579.3	578.9	578.5	578.9
157.5°	592.0	592.8	593.7	594.6	595.0	594.7	594.1	593.4	592.8	592.2	592.8
160°	604.5	605.3	606.0	606.7	607.1	606.9	606.4	605.9	605.4	604.9	605.4
162.5°	615.6	616.5	617.3	618.2	618.6	618.3	617.7	617.1	616.5	615.9	616.5
165°	625.0	625.8	626.7	627.6	628.0	627.7	627.1	626.4	625.8	625.2	625.8
167.5°	633.2	634.0	634.9	635.8	636.2	635.9	635.3	634.6	634.0	633.4	634.0
170°	639.8	640.6	641.5	642.4	642.8	642.4	641.7	641.0	640.2	639.5	640.2
172.5°	644.7	645.6	646.4	647.3	647.7	647.3	646.6	645.9	645.1	644.4	645.1
175°	648.0	648.9	649.7	650.6	651.0	650.6	649.9	649.2	648.4	647.7	648.4
177.5°	650.1	650.9	651.6	652.3	652.7	652.3	651.6	650.9	650.1	649.4	650.1
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	586.6	583.6	581.1	581.5	583.6	581.9	577.7	572.1	570.0	567.5	570.0
5°	621.9	619.3	614.2	614.7	613.4	611.7	604.9	596.4	596.4	589.6	588.7
7.5°	656.8	653.0	649.5	648.7	644.0	640.6	634.7	622.8	618.1	610.0	605.3
10°	695.9	692.9	689.1	684.4	681.9	675.9	666.1	648.7	640.2	629.1	621.0
12.5°	735.5	735.0	726.5	717.2	716.8	707.4	700.6	677.2	665.7	650.8	631.7
15°	760.6	758.4	753.8	749.1	750.4	740.2	724.8	697.2	689.5	671.7	651.3
17.5°	760.1	760.1	758.9	758.0	756.7	753.8	745.3	727.0	714.6	692.1	672.9
20°	735.9	741.4	742.7	742.3	746.5	748.7	748.2	736.8	727.0	707.0	687.4
22.5°	687.4	700.2	705.7	709.1	718.0	722.7	733.8	729.5	727.0	712.1	695.5
25°	642.3	646.6	663.2	664.0	676.3	687.8	698.9	706.1	715.5	710.0	695.9
27.5°	584.0	593.8	605.7	614.7	617.2	640.6	658.9	672.5	693.8	695.5	690.8
30°	518.1	522.8	542.4	554.3	567.9	584.9	611.3	634.7	653.8	671.2	677.2
32.5°	437.7	456.9	468.3	482.8	494.7	524.9	557.2	587.4	609.6	638.9	651.7
35°	364.1	379.0	398.6	404.5	426.2	451.7	493.9	532.6	566.2	596.0	621.9
37.5°	303.3	315.2	336.0	345.4	358.2	390.9	426.2	474.3	514.7	551.3	583.6
40°	261.6	270.5	286.3	289.3	299.9	329.7	358.2	403.3	456.9	506.2	541.5
42.5°	233.1	237.4	248.0	251.8	258.6	278.6	304.1	346.7	396.5	447.5	497.3
45°	212.7	215.7	222.0	225.4	234.0	242.9	263.7	297.8	336.9	388.4	442.0
47.5°	194.4	198.2	200.8	202.9	207.6	217.4	231.0	256.1	293.5	340.7	392.6
50°	179.1	180.4	185.0	185.5	188.4	194.8	207.6	222.9	252.7	291.0	341.2
52.5°	163.8	165.0	168.0	171.0	172.3	177.4	185.9	198.7	220.8	251.0	295.6
55°	148.5	150.2	153.1	155.3	156.5	160.8	165.9	178.2	195.7	216.9	253.5
57.5°	133.1	137.0	137.8	139.1	141.2	145.9	150.6	157.8	171.4	191.0	217.8
60°	118.7	120.0	122.9	124.2	126.3	128.9	134.8	140.4	150.2	165.5	189.7
62.5°	103.8	106.8	108.0	109.3	111.0	114.0	117.8	123.8	132.3	144.6	163.8
65°	91.0	91.5	94.0	95.7	97.4	99.5	103.4	108.9	114.0	125.5	139.5
67.5°	78.7	79.5	80.4	82.1	84.2	86.4	89.8	92.7	99.1	106.8	117.8
70°	66.8	66.8	68.9	70.2	69.8	72.3	74.9	78.3	82.9	90.2	99.1
72.5°	56.1	55.7	57.4	57.9	58.7	60.4	62.1	65.5	68.1	73.6	80.4
75°	44.7	45.5	46.4	46.4	47.6	48.9	50.6	52.3	55.3	58.7	63.8
77.5°	35.3	35.3	36.2	36.6	37.9	37.4	39.1	40.8	43.0	45.9	49.8
80°	25.9	26.8	26.8	26.8	27.2	27.6	29.4	30.6	31.9	34.0	35.7
82.5°	18.3	18.3	19.1	19.1	19.1	20.0	20.0	20.4	21.3	22.5	23.8
85°	11.5	11.5	11.5	11.9	11.5	11.9	12.8	12.3	12.8	13.6	13.6
87.5°	5.5	5.5	5.5	5.5	5.5	6.0	5.5	6.0	6.4	6.4	6.4
90°	18.4	18.3	18.2	18.1	18.2	18.5	18.7	19.0	19.2	16.5	13.8
92.5°	17.6	17.6	17.6	17.6	17.5	17.4	17.3	17.1	17.0	16.9	16.8
95°	34.6	34.8	35.1	35.2	35.2	35.2	35.2	35.2	35.2	35.0	34.7
97.5°	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.4	53.9
100°	75.5	75.6	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.4	75.1
102.5°	98.6	98.7	98.8	98.9	98.8	98.7	98.6	98.4	98.3	97.8	97.3
105°	122.0	122.0	122.0	122.0	121.9	121.6	121.4	121.1	120.9	120.7	120.4
107.5°	144.6	145.2	145.8	146.1	146.0	145.9	145.8	145.7	145.6	145.6	145.6
110°	170.0	170.3	170.7	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9



TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	194.4	194.6	194.9	195.0	195.2	195.6	195.9	196.3	196.7	196.8	196.9
115°	220.5	220.9	221.2	221.4	221.5	221.6	221.7	221.9	222.0	222.2	222.5
117.5°	244.7	245.0	245.4	245.6	245.8	246.1	246.5	246.8	247.2	247.8	248.4
120°	270.5	270.9	271.2	271.4	271.4	271.4	271.4	271.4	271.4	272.4	273.4
122.5°	295.5	295.7	296.0	296.1	296.3	296.7	297.0	297.4	297.8	298.4	299.0
125°	321.1	321.2	321.3	321.4	321.6	321.9	322.3	322.6	323.0	323.4	323.8
127.5°	344.7	345.0	345.4	345.6	345.8	346.3	346.8	347.3	347.8	348.3	348.8
130°	370.2	370.7	371.2	371.4	371.5	371.8	372.0	372.3	372.5	372.7	373.0
132.5°	394.1	394.5	394.8	395.0	395.3	395.9	396.6	397.2	397.8	397.7	397.5
135°	419.4	419.7	420.1	420.3	420.4	420.5	420.6	420.7	420.8	420.6	420.3
137.5°	442.2	442.7	443.2	443.4	443.5	443.6	443.7	443.8	443.9	443.7	443.4
140°	465.8	466.3	466.8	467.0	467.0	467.0	467.0	467.0	467.0	466.4	465.8
142.5°	487.2	487.7	488.2	488.4	488.3	488.2	488.1	488.0	487.9	487.5	487.1
145°	508.6	509.1	509.6	509.8	509.7	509.6	509.5	509.4	509.3	508.6	507.8
147.5°	527.9	528.4	528.9	529.1	529.0	528.7	528.5	528.2	528.0	527.5	527.0
150°	546.3	546.6	547.0	547.2	547.0	546.6	546.3	545.9	545.5	545.0	544.5
152.5°	564.1	564.6	565.1	565.3	565.1	564.6	564.1	563.6	563.1	562.5	561.9
155°	579.3	579.6	580.0	580.2	579.9	579.3	578.6	578.0	577.4	577.0	576.7
157.5°	593.4	594.1	594.7	595.0	594.6	593.7	592.8	592.0	591.1	590.9	590.6
160°	605.9	606.4	606.9	607.1	606.7	606.0	605.3	604.5	603.8	603.7	603.5
162.5°	617.1	617.7	618.3	618.6	618.2	617.3	616.5	615.6	614.8	614.7	614.5
165°	626.4	627.1	627.7	628.0	627.6	626.7	625.8	625.0	624.1	624.1	624.1
167.5°	634.6	635.3	635.9	636.2	635.8	634.9	634.0	633.2	632.3	632.3	632.3
170°	641.0	641.7	642.4	642.8	642.4	641.5	640.6	639.8	638.9	639.0	639.2
172.5°	645.9	646.6	647.3	647.7	647.3	646.4	645.6	644.7	643.9	644.0	644.1
175°	649.2	649.9	650.6	651.0	650.6	649.7	648.9	648.0	647.2	647.4	647.7
177.5°	650.9	651.6	652.3	652.7	652.3	651.6	650.9	650.1	649.4	649.6	649.9
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	567.9	565.7	564.5	565.3	562.8	556.4	556.4	558.5	556.0	553.4	549.6
5°	583.6	579.4	576.8	576.4	570.4	560.2	558.1	556.0	550.4	544.5	538.1
7.5°	598.9	591.3	587.0	584.0	575.5	562.3	556.8	552.1	543.2	534.3	526.2
10°	611.7	600.6	595.5	590.8	579.8	563.2	554.3	545.8	534.3	522.8	512.6
12.5°	621.9	609.1	602.8	596.0	582.3	560.6	549.6	536.0	524.5	509.2	499.0
15°	638.9	612.5	606.6	600.2	586.2	556.4	542.8	527.5	511.7	491.3	480.2
17.5°	652.5	617.2	616.8	603.2	584.9	554.7	533.8	513.9	496.8	476.4	459.0
20°	660.6	624.5	617.6	603.6	580.6	543.2	521.5	499.4	481.1	456.4	439.0
22.5°	667.4	634.7	616.8	599.8	571.7	539.4	507.5	486.6	461.5	434.7	418.1
25°	670.0	636.8	618.1	598.5	565.3	528.3	492.2	469.6	441.5	417.3	394.7
27.5°	670.4	636.4	613.4	593.0	556.4	513.9	476.8	453.0	422.0	393.9	371.4
30°	666.1	631.7	610.8	588.7	547.9	500.7	458.1	431.8	398.6	370.5	347.1
32.5°	653.4	622.3	605.3	581.1	536.8	482.4	440.3	410.9	376.0	348.4	325.8
35°	632.1	610.8	592.1	569.6	522.4	465.4	422.4	387.9	352.6	326.3	305.0
37.5°	605.7	594.3	576.8	554.7	505.8	450.0	402.4	364.1	328.8	303.3	282.4
40°	570.0	573.0	556.0	536.0	486.2	429.2	376.5	339.9	306.7	282.9	262.5
42.5°	531.3	543.6	533.8	514.7	464.5	406.2	357.3	316.9	284.6	259.9	242.9
45°	489.6	510.9	504.9	490.9	442.0	382.0	330.1	291.0	262.5	238.6	223.7
47.5°	444.1	474.3	474.3	464.1	416.9	357.7	306.7	266.7	238.6	221.6	207.2
50°	397.7	431.8	437.3	430.5	388.8	330.1	278.2	242.0	217.8	201.2	190.6
52.5°	349.2	388.8	399.0	395.6	359.0	303.7	254.8	219.5	197.4	182.9	173.6
55°	302.9	348.8	359.9	361.1	327.1	274.8	228.9	197.8	176.5	166.7	158.7
57.5°	259.1	303.3	315.6	317.8	294.8	248.4	204.6	177.4	158.2	150.2	143.8
60°	221.6	258.6	274.8	279.5	259.5	217.8	182.1	155.7	141.2	133.6	127.6
62.5°	191.0	220.8	237.8	239.1	230.1	191.0	158.7	136.5	124.2	117.4	114.4
65°	161.2	188.0	198.2	203.3	196.1	165.5	137.0	118.7	108.9	102.9	100.0
67.5°	137.4	154.4	162.9	169.7	162.5	139.5	116.6	101.7	94.4	88.5	86.8
70°	112.7	126.8	133.1	139.9	133.6	116.1	99.5	85.9	79.5	74.9	72.7
72.5°	90.2	101.2	107.2	111.4	107.6	93.2	79.5	70.2	65.5	62.1	60.8
75°	71.5	79.1	82.5	85.5	83.8	72.7	64.2	56.6	52.3	49.3	48.5
77.5°	54.4	60.0	63.8	64.7	62.5	55.3	48.1	43.4	40.0	38.3	37.4
80°	38.7	42.1	44.2	45.5	43.4	40.4	35.3	31.9	28.9	26.8	26.4
82.5°	25.9	27.6	29.4	28.9	28.1	25.5	22.5	20.8	19.6	17.9	17.9
85°	14.9	15.3	16.2	16.6	16.2	14.5	12.8	11.9	11.1	9.8	9.8
87.5°	6.4	6.8	6.8	7.2	6.4	6.4	5.5	4.7	4.7	4.3	3.8
90°	11.1	8.4	7.1	6.4	4.9	3.4	2.0	0.5	2.0	3.4	4.9
92.5°	16.7	16.6	16.5	16.0	15.0	14.1	13.1	12.1	13.1	14.1	15.0
95°	34.5	34.2	34.1	33.5	32.3	31.0	29.8	28.6	29.8	31.0	32.3
97.5°	53.4	52.9	52.7	52.2	51.1	50.0	48.9	47.8	48.9	50.0	51.1
100°	74.7	74.4	74.2	73.7	72.7	71.8	70.8	69.8	70.8	71.8	72.7
102.5°	96.8	96.3	96.1	95.7	95.0	94.3	93.5	92.8	93.5	94.3	95.0
105°	120.2	119.9	119.8	119.6	119.2	118.9	118.5	118.1	118.5	118.9	119.2
107.5°	145.6	145.6	145.6	145.4	144.9	144.4	143.9	143.4	143.9	144.4	144.9
110°	170.9	170.9	170.9	170.5	169.8	169.1	168.3	167.6	168.3	169.1	169.8

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	197.0	197.1	197.2	196.8	196.1	195.4	194.6	193.9	194.6	195.4	196.1
115°	222.7	223.0	223.1	222.7	222.0	221.3	220.5	219.8	220.5	221.3	222.0
117.5°	249.1	249.7	250.0	249.5	248.5	247.6	246.6	245.6	246.6	247.6	248.5
120°	274.3	275.3	275.8	275.3	274.3	273.4	272.4	271.4	272.4	273.4	274.3
122.5°	299.6	300.2	300.5	299.9	298.7	297.4	296.2	295.0	296.2	297.4	298.7
125°	324.1	324.5	324.7	324.1	323.0	321.9	320.8	319.7	320.8	321.9	323.0
127.5°	349.3	349.8	350.0	349.3	348.0	346.6	345.3	343.9	345.3	346.6	348.0
130°	373.2	373.5	373.6	372.8	371.2	369.6	368.0	366.4	368.0	369.6	371.2
132.5°	397.4	397.3	397.2	396.6	395.4	394.1	392.9	391.7	392.9	394.1	395.4
135°	420.1	419.8	419.7	419.0	417.7	416.4	415.0	413.7	415.0	416.4	417.7
137.5°	443.2	442.9	442.8	442.3	441.2	440.1	439.0	437.9	439.0	440.1	441.2
140°	465.1	464.5	464.2	463.7	462.6	461.5	460.4	459.3	460.4	461.5	462.6
142.5°	486.8	486.4	486.2	485.7	484.6	483.5	482.4	481.3	482.4	483.5	484.6
145°	507.1	506.4	506.0	505.6	504.7	503.8	503.0	502.1	503.0	503.8	504.7
147.5°	526.5	526.0	525.8	525.2	524.1	523.0	521.9	520.8	521.9	523.0	524.1
150°	544.0	543.5	543.3	542.9	542.2	541.5	540.8	540.1	540.8	541.5	542.2
152.5°	561.3	560.7	560.4	560.0	559.3	558.6	557.8	557.1	557.8	558.6	559.3
155°	576.3	576.0	575.8	575.6	575.2	574.9	574.5	574.1	574.5	574.9	575.2
157.5°	590.4	590.1	590.0	589.9	589.6	589.4	589.1	588.9	589.1	589.4	589.6
160°	603.4	603.3	603.2	603.1	602.8	602.6	602.3	602.1	602.3	602.6	602.8
162.5°	614.4	614.3	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2	614.2
165°	624.1	624.1	624.1	624.2	624.3	624.4	624.6	624.7	624.6	624.4	624.3
167.5°	632.3	632.3	632.3	632.5	632.9	633.2	633.6	634.0	633.6	633.2	632.9
170°	639.3	639.4	639.5	639.7	640.0	640.4	640.7	641.1	640.7	640.4	640.0
172.5°	644.2	644.3	644.4	644.6	645.0	645.3	645.7	646.1	645.7	645.3	645.0
175°	647.9	648.2	648.3	648.5	648.8	649.2	649.5	649.9	649.5	649.2	648.8
177.5°	650.1	650.4	650.5	650.7	651.0	651.4	651.7	652.1	651.7	651.4	651.0
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	547.5	549.6	549.2	544.9	540.2	536.4	529.2	530.0	527.5	527.9	530.4
5°	533.8	533.8	532.1	526.2	518.5	514.3	506.2	504.1	499.0	498.5	498.1
7.5°	519.4	517.3	515.1	506.6	497.3	490.5	479.4	476.8	471.7	468.3	466.6
10°	502.4	499.4	495.1	485.4	473.9	465.4	453.9	450.5	440.7	436.4	433.9
12.5°	483.7	482.0	475.1	467.1	448.3	439.0	422.4	425.8	416.0	407.5	406.2
15°	464.9	458.6	454.7	441.5	419.0	414.7	401.6	394.7	385.8	379.0	379.0
17.5°	446.6	436.9	428.4	414.3	397.7	385.8	376.0	372.6	361.6	354.8	353.5
20°	422.4	411.3	409.2	389.2	377.7	364.5	355.2	346.7	338.6	335.6	333.5
22.5°	399.4	386.7	383.3	366.2	354.8	341.6	332.2	326.3	320.3	318.2	314.4
25°	374.8	367.1	362.0	343.7	330.9	318.6	312.2	308.0	302.4	302.0	299.5
27.5°	350.9	343.7	338.6	321.2	311.8	300.3	295.2	290.5	287.6	286.3	285.0
30°	330.5	322.4	316.5	303.7	292.2	282.9	278.6	275.6	273.9	271.8	271.4
32.5°	308.0	303.3	295.2	285.4	276.5	267.6	265.0	262.9	260.3	259.5	259.1
35°	288.8	282.4	277.3	266.3	262.5	254.8	251.8	250.1	246.7	245.9	245.0
37.5°	270.1	264.2	258.6	251.8	244.6	240.3	238.6	236.1	234.4	234.8	234.0
40°	251.4	246.7	242.5	235.2	231.0	228.9	225.4	222.9	222.0	222.5	222.0
42.5°	233.1	228.9	226.3	220.8	216.5	214.4	212.3	209.7	211.0	211.0	212.3
45°	216.5	212.7	211.0	206.7	204.2	200.8	198.7	198.2	199.9	199.5	199.5
47.5°	199.5	198.2	196.1	192.3	188.9	186.7	186.3	186.3	188.0	188.9	188.4
50°	186.3	183.8	181.2	178.2	175.7	174.8	173.6	174.4	176.1	176.1	177.0
52.5°	169.7	168.0	167.2	164.6	162.9	162.9	162.9	163.3	164.6	165.9	165.5
55°	155.3	154.0	153.1	151.9	149.7	150.2	149.7	150.6	151.9	153.1	154.0
57.5°	139.9	139.5	138.7	136.5	136.5	136.1	137.4	137.8	139.9	140.8	142.1
60°	126.3	125.1	125.1	123.4	123.4	123.4	124.6	125.9	127.6	128.0	128.9
62.5°	111.9	111.9	111.4	110.2	110.2	111.4	111.9	113.6	114.4	114.4	115.7
65°	98.3	97.8	97.4	97.8	98.3	98.3	99.5	100.4	101.2	101.7	102.1
67.5°	84.6	84.2	85.1	84.6	85.5	87.2	86.8	88.1	89.3	89.3	89.8
70°	71.9	72.7	72.3	73.2	72.7	73.6	74.9	75.3	75.3	75.7	77.0
72.5°	60.0	60.0	60.0	59.6	60.0	60.8	61.7	62.1	63.0	63.4	64.7
75°	48.5	48.5	47.6	48.5	48.5	49.3	50.2	50.2	50.2	51.0	52.3
77.5°	36.6	37.0	36.6	37.4	37.4	37.9	38.7	38.3	39.1	39.6	40.0
80°	26.8	26.4	26.4	26.4	26.8	26.8	27.6	28.1	28.1	29.4	28.5
82.5°	17.0	17.4	17.0	17.4	17.4	17.9	17.4	17.9	18.3	19.1	18.7
85°	9.8	9.4	9.4	9.8	9.4	9.4	9.8	9.4	9.8	9.4	9.8
87.5°	3.8	3.4	3.4	3.4	3.4	3.0	3.0	2.6	2.6	2.6	2.1
90°	6.4	7.1	8.4	11.1	13.8	16.5	19.2	19.0	18.7	18.5	18.2
92.5°	16.0	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.3	17.4	17.5
95°	33.5	34.1	34.2	34.5	34.7	35.0	35.2	35.2	35.2	35.2	35.2
97.5°	52.2	52.7	52.9	53.4	53.9	54.4	54.9	54.9	54.9	54.9	54.9
100°	73.7	74.2	74.4	74.7	75.1	75.4	75.8	75.8	75.8	75.8	75.8
102.5°	95.7	96.1	96.3	96.8	97.3	97.8	98.3	98.4	98.6	98.7	98.8
105°	119.6	119.8	119.9	120.2	120.4	120.7	120.9	121.1	121.4	121.6	121.9
107.5°	145.4	145.6	145.6	145.6	145.6	145.6	145.6	145.7	145.8	145.9	146.0
110°	170.5	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	196.8	197.2	197.1	197.0	196.9	196.8	196.7	196.3	195.9	195.6	195.2
115°	222.7	223.1	223.0	222.7	222.5	222.2	222.0	221.9	221.7	221.6	221.5
117.5°	249.5	250.0	249.7	249.1	248.4	247.8	247.2	246.8	246.5	246.1	245.8
120°	275.3	275.8	275.3	274.3	273.4	272.4	271.4	271.4	271.4	271.4	271.4
122.5°	299.9	300.5	300.2	299.6	299.0	298.4	297.8	297.4	297.0	296.7	296.3
125°	324.1	324.7	324.5	324.1	323.8	323.4	323.0	322.6	322.3	321.9	321.6
127.5°	349.3	350.0	349.8	349.3	348.8	348.3	347.8	347.3	346.8	346.3	345.8
130°	372.8	373.6	373.5	373.2	373.0	372.7	372.5	372.3	372.0	371.8	371.5
132.5°	396.6	397.2	397.3	397.4	397.5	397.7	397.8	397.2	396.6	395.9	395.3
135°	419.0	419.7	419.8	420.1	420.3	420.6	420.8	420.7	420.6	420.5	420.4
137.5°	442.3	442.8	442.9	443.2	443.4	443.7	443.9	443.8	443.7	443.6	443.5
140°	463.7	464.2	464.5	465.1	465.8	466.4	467.0	467.0	467.0	467.0	467.0
142.5°	485.7	486.2	486.4	486.8	487.1	487.5	487.9	488.0	488.1	488.2	488.3
145°	505.6	506.0	506.4	507.1	507.8	508.6	509.3	509.4	509.5	509.6	509.7
147.5°	525.2	525.8	526.0	526.5	527.0	527.5	528.0	528.2	528.5	528.7	529.0
150°	542.9	543.3	543.5	544.0	544.5	545.0	545.5	545.9	546.3	546.6	547.0
152.5°	560.0	560.4	560.7	561.3	561.9	562.5	563.1	563.6	564.1	564.6	565.1
155°	575.6	575.8	576.0	576.3	576.7	577.0	577.4	578.0	578.6	579.3	579.9
157.5°	589.9	590.0	590.1	590.4	590.6	590.9	591.1	592.0	592.8	593.7	594.6
160°	603.1	603.2	603.3	603.4	603.5	603.7	603.8	604.5	605.3	606.0	606.7
162.5°	614.2	614.2	614.3	614.4	614.5	614.7	614.8	615.6	616.5	617.3	618.2
165°	624.2	624.1	624.1	624.1	624.1	624.1	624.1	625.0	625.8	626.7	627.6
167.5°	632.5	632.3	632.3	632.3	632.3	632.3	632.3	633.2	634.0	634.9	635.8
170°	639.7	639.5	639.4	639.3	639.2	639.0	638.9	639.8	640.6	641.5	642.4
172.5°	644.6	644.4	644.3	644.2	644.1	644.0	643.9	644.7	645.6	646.4	647.3
175°	648.5	648.3	648.2	647.9	647.7	647.4	647.2	648.0	648.9	649.7	650.6
177.5°	650.7	650.5	650.4	650.1	649.9	649.6	649.4	650.1	650.9	651.6	652.3
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	527.5	528.7	525.8	524.9	525.8	522.8	523.6	524.5	524.5	525.8	526.6
5°	496.8	495.1	492.2	491.3	490.5	491.7	490.9	492.2	492.6	495.6	496.0
7.5°	466.6	464.1	461.5	459.0	458.1	456.0	458.1	458.1	461.1	460.3	462.4
10°	430.9	430.5	427.1	425.8	424.1	420.7	425.4	424.1	426.2	430.1	430.9
12.5°	404.5	399.9	402.0	396.0	398.2	394.7	395.2	395.2	398.6	399.0	398.2
15°	379.4	375.6	370.1	367.5	366.2	364.5	370.1	370.5	368.0	373.9	371.8
17.5°	353.9	353.9	348.8	347.5	344.1	345.8	345.0	345.4	344.6	348.8	350.9
20°	331.8	329.7	328.0	328.4	324.1	323.3	322.4	323.3	326.3	329.2	330.1
22.5°	313.9	312.7	308.4	309.2	305.8	307.1	306.3	308.4	308.8	308.8	311.8
25°	296.9	295.2	295.6	293.9	292.7	292.7	291.4	292.7	294.4	295.2	295.6
27.5°	284.2	282.9	280.7	279.5	280.3	278.2	279.9	281.2	281.2	280.3	281.2
30°	268.8	269.7	269.7	265.4	267.1	266.3	267.6	268.4	268.4	268.8	268.0
32.5°	258.6	256.1	255.7	255.2	255.2	253.5	253.5	254.8	255.2	255.7	256.9
35°	245.0	245.0	242.9	244.2	242.5	242.9	242.5	242.9	243.7	242.5	243.7
37.5°	232.7	233.1	232.3	233.1	233.5	232.7	231.8	233.5	232.7	232.7	231.8
40°	222.0	221.6	222.0	222.0	222.0	222.5	221.6	221.6	221.6	220.8	219.9
42.5°	213.1	210.6	211.4	211.8	210.6	210.6	211.0	210.6	211.8	209.3	209.3
45°	200.4	199.5	199.9	199.9	200.8	199.5	200.4	200.8	199.5	199.1	198.2
47.5°	188.9	189.7	188.9	189.7	189.7	190.6	188.9	189.3	189.7	188.0	186.7
50°	177.4	177.4	178.7	178.2	178.7	177.8	177.8	177.4	177.8	177.0	175.7
52.5°	166.7	165.5	167.6	167.2	166.7	166.3	165.9	166.3	165.5	164.6	164.6
55°	153.6	153.6	154.8	155.3	155.3	154.4	153.6	154.0	153.6	153.1	152.7
57.5°	142.9	141.2	142.1	142.5	142.5	141.2	142.1	141.2	141.2	141.7	140.4
60°	129.3	129.3	128.5	129.7	129.7	128.9	128.9	129.3	128.5	128.0	127.6
62.5°	114.9	115.3	116.6	117.0	117.4	116.6	115.7	116.1	116.1	114.9	115.3
65°	102.5	103.4	105.1	104.6	103.8	104.2	103.4	103.8	102.5	102.9	101.7
67.5°	90.6	90.2	90.6	90.6	91.5	91.0	90.2	90.2	89.8	91.0	89.8
70°	77.8	77.8	77.8	77.8	78.3	78.7	77.8	77.0	77.4	76.6	76.1
72.5°	64.7	65.1	64.7	65.5	64.2	65.1	65.1	64.7	64.2	64.2	64.2
75°	52.3	53.2	51.9	52.3	51.9	52.7	52.3	52.3	51.5	51.0	51.5
77.5°	40.0	40.4	39.6	40.0	39.6	40.0	40.0	39.6	39.6	39.6	39.6
80°	28.5	28.9	28.5	28.1	27.6	28.5	27.6	28.1	28.5	28.1	28.9
82.5°	18.3	18.3	17.9	18.3	17.4	17.4	17.9	17.9	17.4	18.3	17.4
85°	8.9	8.9	9.8	8.9	8.5	8.5	8.5	8.9	8.5	9.4	8.9
87.5°	2.1	1.7	2.1	2.1	1.7	1.7	2.1	1.7	2.1	2.6	1.7
90°	18.1	18.2	18.3	18.4	18.6	18.7	18.6	18.4	18.3	18.2	18.1
92.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
95°	35.2	35.1	34.8	34.6	34.3	34.1	34.3	34.6	34.8	35.1	35.2
97.5°	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
100°	75.8	75.7	75.6	75.5	75.4	75.3	75.4	75.5	75.6	75.7	75.8
102.5°	98.9	98.8	98.7	98.6	98.4	98.3	98.4	98.6	98.7	98.8	98.9
105°	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0
107.5°	146.1	145.8	145.2	144.6	144.0	143.4	144.0	144.6	145.2	145.8	146.1
110°	170.9	170.7	170.3	170.0	169.6	169.2	169.6	170.0	170.3	170.7	170.9

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	195.0	194.9	194.6	194.4	194.1	193.9	194.1	194.4	194.6	194.9	195.0
115°	221.4	221.2	220.9	220.5	220.2	219.8	220.2	220.5	220.9	221.2	221.4
117.5°	245.6	245.4	245.0	244.7	244.3	243.9	244.3	244.7	245.0	245.4	245.6
120°	271.4	271.2	270.9	270.5	270.2	269.8	270.2	270.5	270.9	271.2	271.4
122.5°	296.1	296.0	295.7	295.5	295.2	295.0	295.2	295.5	295.7	296.0	296.1
125°	321.4	321.3	321.2	321.1	320.9	320.8	320.9	321.1	321.2	321.3	321.4
127.5°	345.6	345.4	345.0	344.7	344.3	343.9	344.3	344.7	345.0	345.4	345.6
130°	371.4	371.2	370.7	370.2	369.7	369.2	369.7	370.2	370.7	371.2	371.4
132.5°	395.0	394.8	394.5	394.1	393.8	393.4	393.8	394.1	394.5	394.8	395.0
135°	420.3	420.1	419.7	419.4	419.0	418.6	419.0	419.4	419.7	420.1	420.3
137.5°	443.4	443.2	442.7	442.2	441.7	441.2	441.7	442.2	442.7	443.2	443.4
140°	467.0	466.8	466.3	465.8	465.3	464.8	465.3	465.8	466.3	466.8	467.0
142.5°	488.4	488.2	487.7	487.2	486.7	486.2	486.7	487.2	487.7	488.2	488.4
145°	509.8	509.6	509.1	508.6	508.1	507.6	508.1	508.6	509.1	509.6	509.8
147.5°	529.1	528.9	528.4	527.9	527.4	526.9	527.4	527.9	528.4	528.9	529.1
150°	547.2	547.0	546.6	546.3	545.9	545.5	545.9	546.3	546.6	547.0	547.2
152.5°	565.3	565.1	564.6	564.1	563.6	563.1	563.6	564.1	564.6	565.1	565.3
155°	580.2	580.0	579.6	579.3	578.9	578.5	578.9	579.3	579.6	580.0	580.2
157.5°	595.0	594.7	594.1	593.4	592.8	592.2	592.8	593.4	594.1	594.7	595.0
160°	607.1	606.9	606.4	605.9	605.4	604.9	605.4	605.9	606.4	606.9	607.1
162.5°	618.6	618.3	617.7	617.1	616.5	615.9	616.5	617.1	617.7	618.3	618.6
165°	628.0	627.7	627.1	626.4	625.8	625.2	625.8	626.4	627.1	627.7	628.0
167.5°	636.2	635.9	635.3	634.6	634.0	633.4	634.0	634.6	635.3	635.9	636.2
170°	642.8	642.4	641.7	641.0	640.2	639.5	640.2	641.0	641.7	642.4	642.8
172.5°	647.7	647.3	646.6	645.9	645.1	644.4	645.1	645.9	646.6	647.3	647.7
175°	651.0	650.6	649.9	649.2	648.4	647.7	648.4	649.2	649.9	650.6	651.0
177.5°	652.7	652.3	651.6	650.9	650.1	649.4	650.1	650.9	651.6	652.3	652.7
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4	553.4
2.5°	525.3	528.7	527.5	522.8	528.3	528.3	532.1	532.1	536.8	538.5	541.1
5°	495.6	498.1	500.2	498.1	501.9	507.9	511.3	514.3	520.7	523.2	527.0
7.5°	463.7	468.3	470.5	470.5	476.8	483.7	490.5	494.7	503.6	507.0	510.9
10°	432.6	438.1	442.4	442.0	452.6	456.9	465.4	475.1	484.1	489.2	494.7
12.5°	399.9	402.8	408.8	417.3	419.8	427.5	437.3	449.6	465.8	470.5	478.5
15°	372.6	380.7	385.4	389.2	395.2	402.4	413.0	425.0	441.1	451.3	459.8
17.5°	349.7	360.3	363.3	362.4	370.1	381.1	393.5	402.4	416.9	429.2	437.3
20°	330.9	335.2	340.3	342.4	348.4	360.3	372.2	382.4	394.3	404.1	413.5
22.5°	312.2	315.6	319.9	323.7	328.4	335.2	346.7	359.4	370.9	380.3	390.9
25°	296.9	299.0	302.9	305.8	310.9	315.6	323.7	337.7	351.4	356.9	366.2
27.5°	282.0	283.7	286.3	289.7	292.2	296.9	304.1	315.6	329.7	335.2	348.0
30°	268.8	270.1	272.7	274.4	275.6	281.2	286.7	295.6	306.3	313.9	323.3
32.5°	256.5	257.8	260.3	260.8	262.5	265.4	270.5	278.6	288.0	294.4	302.4
35°	242.9	243.7	246.3	247.1	248.4	251.0	254.8	260.8	269.3	273.9	281.2
37.5°	232.3	231.8	233.5	234.8	236.5	237.8	239.1	245.0	251.4	255.7	261.2
40°	220.8	219.9	220.3	222.0	222.9	224.6	224.6	230.6	234.8	238.2	242.5
42.5°	209.3	208.9	208.0	208.9	209.7	210.1	210.6	214.8	219.1	222.0	226.7
45°	197.8	197.4	196.5	196.9	196.9	197.8	199.1	200.8	203.8	206.3	208.9
47.5°	187.2	186.3	185.0	184.6	185.5	185.5	185.5	187.2	190.1	191.0	193.5
50°	176.1	174.8	173.1	172.3	172.3	171.9	172.7	173.1	175.7	176.5	178.7
52.5°	164.2	163.3	161.6	159.9	160.4	159.5	159.9	160.4	161.2	162.5	163.8
55°	152.3	150.6	149.3	148.9	147.6	147.6	146.3	148.0	147.6	148.0	149.7
57.5°	140.8	139.1	137.0	136.1	134.8	134.4	133.6	133.1	133.6	134.8	136.1
60°	127.2	126.3	125.1	123.8	122.9	121.7	120.8	120.8	120.4	120.4	120.8
62.5°	114.0	113.6	111.9	111.4	110.6	109.7	108.5	107.6	107.6	108.5	108.9
65°	101.2	100.8	99.5	99.1	97.0	96.1	95.7	95.3	94.4	94.4	94.4
67.5°	89.3	88.1	88.1	85.9	84.2	83.4	82.5	82.1	82.1	82.1	82.5
70°	76.1	76.1	74.9	73.6	71.9	72.3	71.0	69.8	69.8	68.9	69.3
72.5°	63.4	63.0	61.7	61.3	60.0	58.7	57.9	58.7	57.4	57.0	57.4
75°	51.0	50.6	49.8	48.9	49.3	48.1	46.8	46.4	46.4	45.5	45.5
77.5°	39.1	40.0	38.3	37.9	37.0	36.2	35.7	35.3	35.3	35.3	36.2
80°	27.2	27.6	27.6	26.8	27.2	25.9	25.9	25.9	24.7	25.1	25.5
82.5°	17.4	17.4	17.0	17.4	17.0	17.0	16.6	16.6	16.2	16.2	16.6
85°	9.8	9.4	8.9	9.8	9.4	9.4	8.9	8.9	8.9	8.9	8.9
87.5°	2.1	2.6	2.6	2.6	2.6	3.0	3.0	3.0	3.4	3.4	3.4
90°	18.2	18.5	18.7	19.0	19.2	16.5	13.8	11.1	8.4	7.1	6.4
92.5°	17.5	17.4	17.3	17.1	17.0	16.9	16.8	16.7	16.6	16.5	16.0
95°	35.2	35.2	35.2	35.2	35.2	35.0	34.7	34.5	34.2	34.1	33.5
97.5°	54.9	54.9	54.9	54.9	54.9	54.4	53.9	53.4	52.9	52.7	52.2
100°	75.8	75.8	75.8	75.8	75.8	75.4	75.1	74.7	74.4	74.2	73.7
102.5°	98.8	98.7	98.6	98.4	98.3	97.8	97.3	96.8	96.3	96.1	95.7
105°	121.9	121.6	121.4	121.1	120.9	120.7	120.4	120.2	119.9	119.8	119.6
107.5°	146.0	145.9	145.8	145.7	145.6	145.6	145.6	145.6	145.6	145.6	145.4
110°	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.9	170.5

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	195.2	195.6	195.9	196.3	196.7	196.8	196.9	197.0	197.1	197.2	196.8
115°	221.5	221.6	221.7	221.9	222.0	222.2	222.5	222.7	223.0	223.1	222.7
117.5°	245.8	246.1	246.5	246.8	247.2	247.8	248.4	249.1	249.7	250.0	249.5
120°	271.4	271.4	271.4	271.4	271.4	272.4	273.4	274.3	275.3	275.8	275.3
122.5°	296.3	296.7	297.0	297.4	297.8	298.4	299.0	299.6	300.2	300.5	299.9
125°	321.6	321.9	322.3	322.6	323.0	323.4	323.8	324.1	324.5	324.7	324.1
127.5°	345.8	346.3	346.8	347.3	347.8	348.3	348.8	349.3	349.8	350.0	349.3
130°	371.5	371.8	372.0	372.3	372.5	372.7	373.0	373.2	373.5	373.6	372.8
132.5°	395.3	395.9	396.6	397.2	397.8	397.7	397.5	397.4	397.3	397.2	396.6
135°	420.4	420.5	420.6	420.7	420.8	420.6	420.3	420.1	419.8	419.7	419.0
137.5°	443.5	443.6	443.7	443.8	443.9	443.7	443.4	443.2	442.9	442.8	442.3
140°	467.0	467.0	467.0	467.0	467.0	466.4	465.8	465.1	464.5	464.2	463.7
142.5°	488.3	488.2	488.1	488.0	487.9	487.5	487.1	486.8	486.4	486.2	485.7
145°	509.7	509.6	509.5	509.4	509.3	508.6	507.8	507.1	506.4	506.0	505.6
147.5°	529.0	528.7	528.5	528.2	528.0	527.5	527.0	526.5	526.0	525.8	525.2
150°	547.0	546.6	546.3	545.9	545.5	545.0	544.5	544.0	543.5	543.3	542.9
152.5°	565.1	564.6	564.1	563.6	563.1	562.5	561.9	561.3	560.7	560.4	560.0
155°	579.9	579.3	578.6	578.0	577.4	577.0	576.7	576.3	576.0	575.8	575.6
157.5°	594.6	593.7	592.8	592.0	591.1	590.9	590.6	590.4	590.1	590.0	589.9
160°	606.7	606.0	605.3	604.5	603.8	603.7	603.5	603.4	603.3	603.2	603.1
162.5°	618.2	617.3	616.5	615.6	614.8	614.7	614.5	614.4	614.3	614.2	614.2
165°	627.6	626.7	625.8	625.0	624.1	624.1	624.1	624.1	624.1	624.1	624.2
167.5°	635.8	634.9	634.0	633.2	632.3	632.3	632.3	632.3	632.3	632.3	632.5
170°	642.4	641.5	640.6	639.8	638.9	639.0	639.2	639.3	639.4	639.5	639.7
172.5°	647.3	646.4	645.6	644.7	643.9	644.0	644.1	644.2	644.3	644.4	644.6
175°	650.6	649.7	648.9	648.0	647.2	647.4	647.7	647.9	648.2	648.3	648.5
177.5°	652.3	651.6	650.9	650.1	649.4	649.6	649.9	650.1	650.4	650.5	650.7
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	553.4	553.4	553.4	553.4
2.5°	543.2	543.2	549.6	556.4
5°	531.3	534.3	544.5	553.8
7.5°	519.8	524.9	537.7	549.6
10°	505.8	512.6	528.3	542.4
12.5°	492.2	498.5	516.8	532.6
15°	473.0	481.1	500.7	520.2
17.5°	453.9	462.0	485.8	508.7
20°	431.3	442.0	468.8	499.4
22.5°	410.5	423.7	453.5	478.1
25°	387.5	407.9	435.6	467.5
27.5°	367.1	387.5	415.6	447.9
30°	344.1	365.0	393.9	423.7
32.5°	322.0	341.2	369.2	405.8
35°	299.0	317.3	344.6	381.6
37.5°	278.2	296.1	325.8	359.9
40°	257.8	276.5	302.0	336.0
42.5°	238.6	255.2	278.2	312.2
45°	221.2	233.1	254.4	286.3
47.5°	202.9	213.5	233.1	265.0
50°	185.9	194.8	211.8	241.6
52.5°	169.3	177.0	192.7	216.5
55°	154.4	161.6	173.1	196.5
57.5°	139.1	144.6	155.7	174.4
60°	124.2	129.3	138.2	153.6
62.5°	109.3	113.6	122.1	134.4
65°	96.1	99.5	105.9	116.6
67.5°	83.4	85.5	90.6	99.1
70°	71.0	72.7	77.0	83.8
72.5°	57.9	59.6	64.2	68.9
75°	46.8	47.2	50.6	54.4
77.5°	36.6	36.2	38.7	41.7
80°	25.1	26.4	28.5	29.8
82.5°	17.0	17.4	18.3	19.1
85°	9.4	9.8	9.8	11.1
87.5°	3.8	4.3	4.3	4.7
90°	4.9	3.4	2.0	0.5
92.5°	15.0	14.1	13.1	12.1
95°	32.3	31.0	29.8	28.6
97.5°	51.1	50.0	48.9	47.8
100°	72.7	71.8	70.8	69.8
102.5°	95.0	94.3	93.5	92.8
105°	119.2	118.9	118.5	118.1
107.5°	144.9	144.4	143.9	143.4
110°	169.8	169.1	168.3	167.6



TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	196.1	195.4	194.6	193.9
115°	222.0	221.3	220.5	219.8
117.5°	248.5	247.6	246.6	245.6
120°	274.3	273.4	272.4	271.4
122.5°	298.7	297.4	296.2	295.0
125°	323.0	321.9	320.8	319.7
127.5°	348.0	346.6	345.3	343.9
130°	371.2	369.6	368.0	366.4
132.5°	395.4	394.1	392.9	391.7
135°	417.7	416.4	415.0	413.7
137.5°	441.2	440.1	439.0	437.9
140°	462.6	461.5	460.4	459.3
142.5°	484.6	483.5	482.4	481.3
145°	504.7	503.8	503.0	502.1
147.5°	524.1	523.0	521.9	520.8
150°	542.2	541.5	540.8	540.1
152.5°	559.3	558.6	557.8	557.1
155°	575.2	574.9	574.5	574.1
157.5°	589.6	589.4	589.1	588.9
160°	602.8	602.6	602.3	602.1
162.5°	614.2	614.2	614.2	614.2
165°	624.3	624.4	624.6	624.7
167.5°	632.9	633.2	633.6	634.0
170°	640.0	640.4	640.7	641.1
172.5°	645.0	645.3	645.7	646.1
175°	648.8	649.2	649.5	649.9
177.5°	651.0	651.4	651.7	652.1
180°	651.0	651.0	651.0	651.0

TEST NUMBER: P998250

CATALOG NUMBER: SA2XXDIP-B290D530UB50-4F0-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	12.39	13.15	13.43	14.19	15.60	9.88	10.64	10.93	11.68	13.09
	3H	13.19	13.87	14.25	14.92	16.35	11.22	11.90	12.27	12.95	14.38
	4H	13.36	14.00	14.42	15.05	16.49	11.68	12.32	12.74	13.37	14.81
	6H	13.40	13.99	14.47	15.05	16.49	11.98	12.57	13.05	13.63	15.07
	8H	13.37	13.93	14.45	15.01	16.45	12.06	12.62	13.14	13.70	15.13
	12H	13.33	13.86	14.42	14.93	16.40	12.10	12.63	13.18	13.70	15.16
4H	2H	12.42	13.06	13.49	14.11	15.55	10.32	10.96	11.39	12.01	13.45
	3H	13.39	13.92	14.47	15.01	16.45	11.77	12.30	12.85	13.38	14.83
	4H	13.66	14.15	14.75	15.22	16.69	12.30	12.79	13.38	13.86	15.33
	6H	13.79	14.21	14.88	15.30	16.76	12.67	13.09	13.76	14.19	15.65
	8H	13.78	14.17	14.88	15.26	16.74	12.78	13.17	13.87	14.26	15.74
	12H	13.74	14.10	14.85	15.20	16.68	12.83	13.19	13.94	14.29	15.77
8H	4H	13.66	14.05	14.76	15.14	16.62	12.43	12.82	13.53	13.91	15.39
	6H	13.84	14.16	14.95	15.29	16.77	12.86	13.19	13.98	14.32	15.79
	8H	13.87	14.15	14.99	15.26	16.76	13.01	13.30	14.13	14.41	15.90
	12H	13.85	14.10	14.97	15.21	16.74	13.10	13.35	14.23	14.46	15.99
12H	4H	13.62	13.97	14.73	15.07	16.55	12.40	12.75	13.51	13.86	15.34
	6H	13.82	14.10	14.94	15.21	16.71	12.86	13.15	13.98	14.26	15.75
	8H	13.85	14.09	14.97	15.20	16.73	13.02	13.26	14.14	14.37	15.90