

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: P998190

Luminaire Tested: SA2XXDIP-B290D330UB50-4F0-XX-W2A-A1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998190
REPORT IS A COMBINATION OF REPORTS P983930 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D330UB50-4F0-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

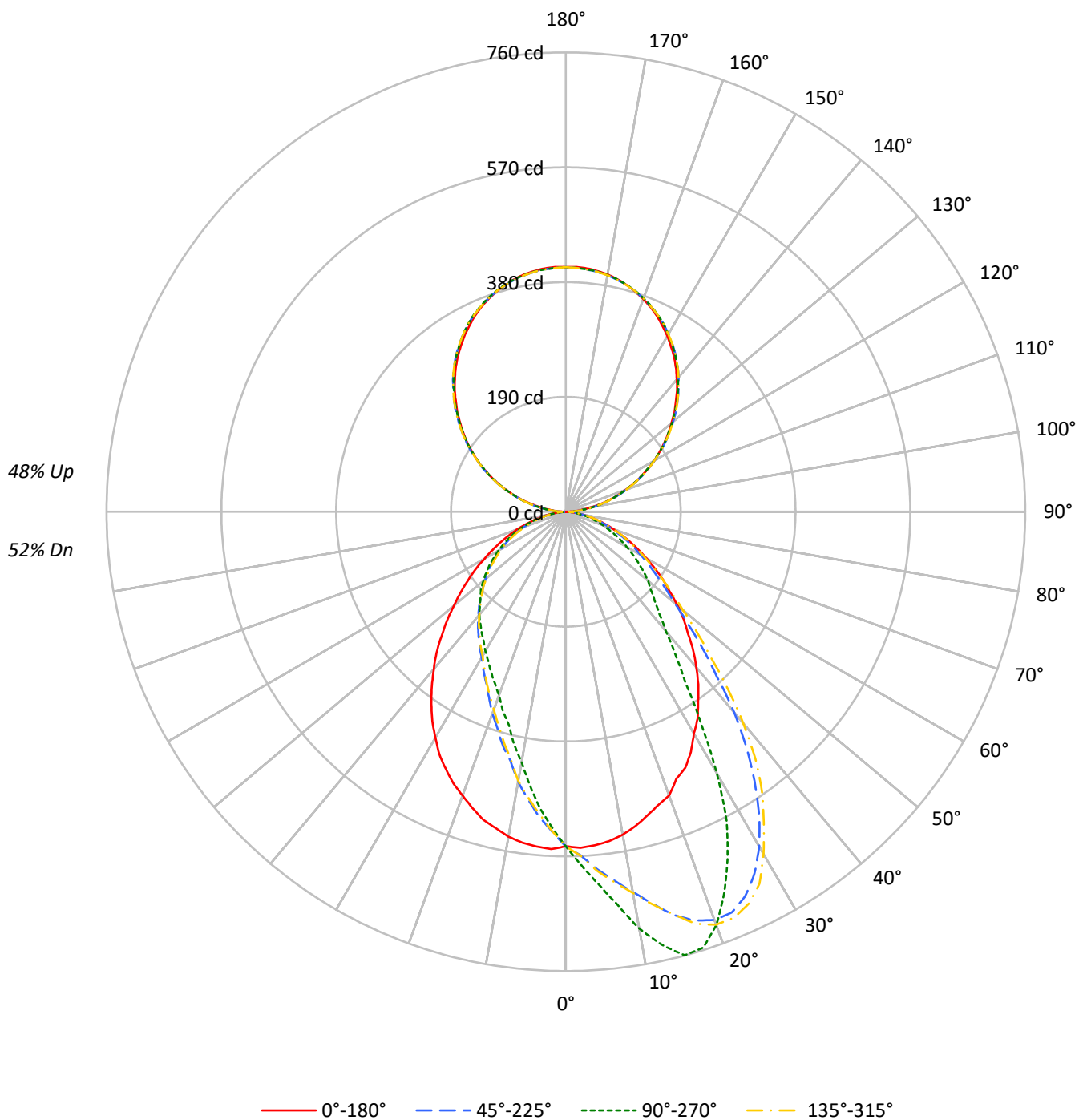
Lumens per Lamp: N/A
Luminaire Lumens: 2354.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	100	100	100	100	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°	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	2.2
10°-20°	153.4	6.5
20°-30°	222.7	9.5
30°-40°	234.7	10.0
40°-50°	207.7	8.8
50°-60°	165.9	7.0
60°-70°	112.7	4.8
70°-80°	57.6	2.4
80°-90°	14.8	0.6
90°-100°	25.0	1.1
100°-110°	79.6	3.4
110°-120°	136.2	5.8
120°-130°	179.2	7.6
130°-140°	201.1	8.5
140°-150°	197.2	8.4
150°-160°	165.4	7.0
160°-170°	109.7	4.7
170°-180°	38.3	1.6
0°-30°	428.8	18.2
0°-40°	663.5	28.2
0°-60°	1037.1	44.1
0°-90°	1222.2	51.9
90°-120°	240.9	10.2
90°-150°	818.4	34.8
90°-180°	1132.0	48.1
0°-180°	2354.0	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	12	0	12	0	2
95°	18	21	18	21	18	20
105°	74	76	74	76	74	78
115°	137	137	137	137	137	135
125°	199	200	199	200	199	178
135°	257	260	257	260	257	199
145°	312	316	312	316	312	195
155°	357	360	357	360	357	164
165°	388	389	388	389	388	110
175°	404	403	404	403	404	38
180°	405	405	405	405	405	

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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°	0.3	1.2	2.1	3.0	3.9	4.4	5.2	6.9	8.6	10.3	12.0
92.5°	7.5	8.1	8.7	9.3	9.9	10.2	10.2	10.3	10.4	10.5	10.6
95°	17.8	18.6	19.3	20.1	20.8	21.2	21.3	21.4	21.6	21.7	21.9
97.5°	29.7	30.4	31.1	31.8	32.5	32.8	33.0	33.3	33.6	33.9	34.2
100°	43.4	44.0	44.6	45.2	45.8	46.1	46.2	46.4	46.7	46.9	47.1
102.5°	57.7	58.2	58.6	59.1	59.6	59.8	60.0	60.3	60.6	60.9	61.2
105°	73.5	73.7	73.9	74.2	74.4	74.5	74.6	74.7	74.9	75.0	75.2
107.5°	89.2	89.5	89.8	90.1	90.4	90.5	90.5	90.5	90.5	90.5	90.5
110°	104.2	104.6	105.1	105.5	106.0	106.2	106.2	106.2	106.2	106.2	106.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	120.6	121.0	121.5	121.9	122.4	122.6	122.6	122.5	122.4	122.4	122.3
115°	136.7	137.1	137.6	138.0	138.5	138.7	138.6	138.5	138.3	138.2	138.0
117.5°	152.7	153.3	153.9	154.5	155.1	155.4	155.2	154.8	154.5	154.1	153.7
120°	168.8	169.4	170.0	170.6	171.2	171.5	171.2	170.6	170.0	169.4	168.8
122.5°	183.5	184.3	185.0	185.8	186.5	186.9	186.7	186.3	186.0	185.6	185.2
125°	198.8	199.5	200.2	200.9	201.6	201.9	201.8	201.6	201.3	201.1	200.9
127.5°	213.9	214.7	215.5	216.4	217.2	217.6	217.5	217.2	216.9	216.6	216.3
130°	227.9	228.9	229.9	230.8	231.8	232.3	232.2	232.1	231.9	231.8	231.6
132.5°	243.6	244.4	245.1	245.9	246.6	247.0	247.0	247.1	247.2	247.2	247.3
135°	257.3	258.1	258.9	259.8	260.6	261.0	261.1	261.2	261.4	261.5	261.7
137.5°	272.3	273.0	273.7	274.4	275.1	275.4	275.5	275.6	275.7	275.9	276.0
140°	285.6	286.3	287.0	287.7	288.4	288.7	288.9	289.3	289.6	290.0	290.4
142.5°	299.3	300.0	300.6	301.3	302.0	302.3	302.4	302.7	302.9	303.2	303.4
145°	312.3	312.8	313.3	313.8	314.3	314.6	314.8	315.3	315.8	316.2	316.7
147.5°	323.9	324.6	325.2	325.9	326.6	326.9	327.1	327.4	327.7	328.0	328.3
150°	335.8	336.3	336.7	337.2	337.7	337.9	338.0	338.3	338.6	338.9	339.2
152.5°	346.4	346.9	347.3	347.8	348.3	348.5	348.7	349.1	349.4	349.8	350.2
155°	357.0	357.2	357.4	357.7	357.9	358.0	358.1	358.4	358.6	358.9	359.1
157.5°	366.2	366.4	366.5	366.7	366.8	366.9	367.0	367.1	367.3	367.4	367.6
160°	374.4	374.6	374.7	374.9	375.0	375.1	375.1	375.2	375.3	375.4	375.5
162.5°	381.9	381.9	381.9	381.9	381.9	381.9	381.9	382.0	382.1	382.2	382.3
165°	388.4	388.3	388.3	388.2	388.1	388.1	388.1	388.1	388.1	388.1	388.1
167.5°	394.2	394.0	393.8	393.5	393.3	393.2	393.2	393.2	393.2	393.2	393.2
170°	398.7	398.5	398.3	398.0	397.8	397.7	397.7	397.6	397.5	397.4	397.3
172.5°	401.8	401.6	401.3	401.1	400.8	400.7	400.7	400.6	400.5	400.5	400.4
175°	404.2	404.0	403.7	403.5	403.2	403.1	403.0	402.9	402.7	402.6	402.4
177.5°	405.5	405.3	405.1	404.8	404.6	404.5	404.4	404.3	404.1	404.0	403.8
180°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8

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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°	11.8	11.7	11.5	11.4	11.3	11.3	11.4	11.5	11.5	11.6	11.5
92.5°	10.7	10.7	10.8	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
95°	21.9	21.9	21.9	21.9	21.9	21.8	21.7	21.5	21.4	21.2	21.4
97.5°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
100°	47.1	47.1	47.1	47.1	47.1	47.1	47.0	46.9	46.9	46.8	46.9
102.5°	61.3	61.3	61.4	61.5	61.5	61.5	61.4	61.3	61.3	61.2	61.3
105°	75.3	75.5	75.6	75.7	75.8	75.8	75.8	75.8	75.8	75.8	75.8
107.5°	90.6	90.7	90.8	90.9	90.9	90.7	90.3	90.0	89.6	89.2	89.6
110°	106.2	106.2	106.2	106.2	106.2	106.1	105.9	105.6	105.4	105.2	105.4

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	122.1	121.9	121.6	121.4	121.3	121.2	121.1	120.9	120.8	120.6	120.8
115°	137.9	137.9	137.8	137.7	137.7	137.6	137.4	137.1	136.9	136.7	136.9
117.5°	153.5	153.3	153.0	152.8	152.7	152.6	152.4	152.1	151.9	151.7	151.9
120°	168.8	168.8	168.8	168.8	168.8	168.7	168.4	168.2	167.9	167.7	167.9
122.5°	185.0	184.7	184.5	184.2	184.1	184.0	183.9	183.8	183.6	183.5	183.6
125°	200.7	200.5	200.2	200.0	199.9	199.9	199.8	199.7	199.6	199.5	199.6
127.5°	216.0	215.7	215.4	215.1	214.9	214.8	214.6	214.3	214.1	213.9	214.1
130°	231.4	231.3	231.1	231.0	230.9	230.8	230.5	230.2	229.9	229.6	229.9
132.5°	246.9	246.5	246.2	245.8	245.6	245.5	245.3	245.0	244.8	244.6	244.8
135°	261.6	261.6	261.5	261.4	261.4	261.3	261.0	260.8	260.5	260.3	260.5
137.5°	275.9	275.9	275.8	275.7	275.7	275.5	275.2	274.9	274.6	274.3	274.6
140°	290.4	290.4	290.4	290.4	290.4	290.2	289.9	289.6	289.3	289.0	289.3
142.5°	303.5	303.5	303.6	303.7	303.7	303.5	303.2	302.9	302.6	302.3	302.6
145°	316.8	316.8	316.9	317.0	317.0	316.9	316.6	316.3	316.0	315.7	316.0
147.5°	328.5	328.6	328.8	328.9	329.0	328.8	328.5	328.2	327.9	327.6	327.9
150°	339.4	339.7	339.9	340.2	340.3	340.2	339.9	339.7	339.4	339.2	339.4
152.5°	350.5	350.8	351.1	351.4	351.5	351.4	351.1	350.8	350.5	350.2	350.5
155°	359.5	359.9	360.2	360.6	360.8	360.7	360.4	360.2	359.9	359.7	359.9
157.5°	368.1	368.7	369.2	369.7	370.0	369.8	369.4	369.1	368.7	368.3	368.7
160°	375.9	376.4	376.8	377.3	377.5	377.3	377.0	376.7	376.4	376.1	376.4
162.5°	382.8	383.4	383.9	384.4	384.7	384.5	384.1	383.8	383.4	383.0	383.4
165°	388.6	389.2	389.7	390.2	390.5	390.3	389.9	389.6	389.2	388.8	389.2
167.5°	393.7	394.3	394.8	395.3	395.6	395.4	395.0	394.7	394.3	393.9	394.3
170°	397.8	398.4	398.9	399.4	399.7	399.5	399.0	398.6	398.1	397.7	398.1
172.5°	400.9	401.5	402.0	402.5	402.8	402.6	402.1	401.6	401.2	400.7	401.2
175°	402.9	403.5	404.0	404.5	404.8	404.6	404.1	403.7	403.2	402.8	403.2
177.5°	404.3	404.7	405.2	405.7	405.9	405.7	405.2	404.7	404.3	403.8	404.3
180°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-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°	11.5	11.4	11.3	11.3	11.4	11.5	11.7	11.8	12.0	10.3	8.6
92.5°	10.9	10.9	10.9	10.9	10.9	10.8	10.7	10.7	10.6	10.5	10.4
95°	21.5	21.7	21.8	21.9	21.9	21.9	21.9	21.9	21.9	21.7	21.6
97.5°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	33.9	33.6
100°	46.9	47.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	46.9	46.7
102.5°	61.3	61.4	61.5	61.5	61.5	61.4	61.3	61.3	61.2	60.9	60.6
105°	75.8	75.8	75.8	75.8	75.7	75.6	75.5	75.3	75.2	75.0	74.9
107.5°	90.0	90.3	90.7	90.9	90.9	90.8	90.7	90.6	90.5	90.5	90.5
110°	105.6	105.9	106.1	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	120.9	121.1	121.2	121.3	121.4	121.6	121.9	122.1	122.3	122.4	122.4
115°	137.1	137.4	137.6	137.7	137.7	137.8	137.9	137.9	138.0	138.2	138.3
117.5°	152.1	152.4	152.6	152.7	152.8	153.0	153.3	153.5	153.7	154.1	154.5
120°	168.2	168.4	168.7	168.8	168.8	168.8	168.8	168.8	168.8	169.4	170.0
122.5°	183.8	183.9	184.0	184.1	184.2	184.5	184.7	185.0	185.2	185.6	186.0
125°	199.7	199.8	199.9	199.9	200.0	200.2	200.5	200.7	200.9	201.1	201.3
127.5°	214.3	214.6	214.8	214.9	215.1	215.4	215.7	216.0	216.3	216.6	216.9
130°	230.2	230.5	230.8	230.9	231.0	231.1	231.3	231.4	231.6	231.8	231.9
132.5°	245.0	245.3	245.5	245.6	245.8	246.2	246.5	246.9	247.3	247.2	247.2
135°	260.8	261.0	261.3	261.4	261.4	261.5	261.6	261.6	261.7	261.5	261.4
137.5°	274.9	275.2	275.5	275.7	275.7	275.8	275.9	275.9	276.0	275.9	275.7
140°	289.6	289.9	290.2	290.4	290.4	290.4	290.4	290.4	290.4	290.0	289.6
142.5°	302.9	303.2	303.5	303.7	303.7	303.6	303.5	303.5	303.4	303.2	302.9
145°	316.3	316.6	316.9	317.0	317.0	316.9	316.8	316.8	316.7	316.2	315.8
147.5°	328.2	328.5	328.8	329.0	328.9	328.8	328.6	328.5	328.3	328.0	327.7
150°	339.7	339.9	340.2	340.3	340.2	339.9	339.7	339.4	339.2	338.9	338.6
152.5°	350.8	351.1	351.4	351.5	351.4	351.1	350.8	350.5	350.2	349.8	349.4
155°	360.2	360.4	360.7	360.8	360.6	360.2	359.9	359.5	359.1	358.9	358.6
157.5°	369.1	369.4	369.8	370.0	369.7	369.2	368.7	368.1	367.6	367.4	367.3
160°	376.7	377.0	377.3	377.5	377.3	376.8	376.4	375.9	375.5	375.4	375.3
162.5°	383.8	384.1	384.5	384.7	384.4	383.9	383.4	382.8	382.3	382.2	382.1
165°	389.6	389.9	390.3	390.5	390.2	389.7	389.2	388.6	388.1	388.1	388.1
167.5°	394.7	395.0	395.4	395.6	395.3	394.8	394.3	393.7	393.2	393.2	393.2
170°	398.6	399.0	399.5	399.7	399.4	398.9	398.4	397.8	397.3	397.4	397.5
172.5°	401.6	402.1	402.6	402.8	402.5	402.0	401.5	400.9	400.4	400.5	400.5
175°	403.7	404.1	404.6	404.8	404.5	404.0	403.5	402.9	402.4	402.6	402.7
177.5°	404.7	405.2	405.7	405.9	405.7	405.2	404.7	404.3	403.8	404.0	404.1
180°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-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°	6.9	5.2	4.4	3.9	3.0	2.1	1.2	0.3	1.2	2.1	3.0
92.5°	10.3	10.2	10.2	9.9	9.3	8.7	8.1	7.5	8.1	8.7	9.3
95°	21.4	21.3	21.2	20.8	20.1	19.3	18.6	17.8	18.6	19.3	20.1
97.5°	33.3	33.0	32.8	32.5	31.8	31.1	30.4	29.7	30.4	31.1	31.8
100°	46.4	46.2	46.1	45.8	45.2	44.6	44.0	43.4	44.0	44.6	45.2
102.5°	60.3	60.0	59.8	59.6	59.1	58.6	58.2	57.7	58.2	58.6	59.1
105°	74.7	74.6	74.5	74.4	74.2	73.9	73.7	73.5	73.7	73.9	74.2
107.5°	90.5	90.5	90.5	90.4	90.1	89.8	89.5	89.2	89.5	89.8	90.1
110°	106.2	106.2	106.2	106.0	105.5	105.1	104.6	104.2	104.6	105.1	105.5

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	122.5	122.6	122.6	122.4	121.9	121.5	121.0	120.6	121.0	121.5	121.9
115°	138.5	138.6	138.7	138.5	138.0	137.6	137.1	136.7	137.1	137.6	138.0
117.5°	154.8	155.2	155.4	155.1	154.5	153.9	153.3	152.7	153.3	153.9	154.5
120°	170.6	171.2	171.5	171.2	170.6	170.0	169.4	168.8	169.4	170.0	170.6
122.5°	186.3	186.7	186.9	186.5	185.8	185.0	184.3	183.5	184.3	185.0	185.8
125°	201.6	201.8	201.9	201.6	200.9	200.2	199.5	198.8	199.5	200.2	200.9
127.5°	217.2	217.5	217.6	217.2	216.4	215.5	214.7	213.9	214.7	215.5	216.4
130°	232.1	232.2	232.3	231.8	230.8	229.9	228.9	227.9	228.9	229.9	230.8
132.5°	247.1	247.0	247.0	246.6	245.9	245.1	244.4	243.6	244.4	245.1	245.9
135°	261.2	261.1	261.0	260.6	259.8	258.9	258.1	257.3	258.1	258.9	259.8
137.5°	275.6	275.5	275.4	275.1	274.4	273.7	273.0	272.3	273.0	273.7	274.4
140°	289.3	288.9	288.7	288.4	287.7	287.0	286.3	285.6	286.3	287.0	287.7
142.5°	302.7	302.4	302.3	302.0	301.3	300.6	300.0	299.3	300.0	300.6	301.3
145°	315.3	314.8	314.6	314.3	313.8	313.3	312.8	312.3	312.8	313.3	313.8
147.5°	327.4	327.1	326.9	326.6	325.9	325.2	324.6	323.9	324.6	325.2	325.9
150°	338.3	338.0	337.9	337.7	337.2	336.7	336.3	335.8	336.3	336.7	337.2
152.5°	349.1	348.7	348.5	348.3	347.8	347.3	346.9	346.4	346.9	347.3	347.8
155°	358.4	358.1	358.0	357.9	357.7	357.4	357.2	357.0	357.2	357.4	357.7
157.5°	367.1	367.0	366.9	366.8	366.7	366.5	366.4	366.2	366.4	366.5	366.7
160°	375.2	375.1	375.1	375.0	374.9	374.7	374.6	374.4	374.6	374.7	374.9
162.5°	382.0	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9	381.9
165°	388.1	388.1	388.1	388.1	388.2	388.3	388.3	388.4	388.3	388.3	388.2
167.5°	393.2	393.2	393.2	393.3	393.5	393.8	394.0	394.2	394.0	393.8	393.5
170°	397.6	397.7	397.7	397.8	398.0	398.3	398.5	398.7	398.5	398.3	398.0
172.5°	400.6	400.7	400.7	400.8	401.1	401.3	401.6	401.8	401.6	401.3	401.1
175°	402.9	403.0	403.1	403.2	403.5	403.7	404.0	404.2	404.0	403.7	403.5
177.5°	404.3	404.4	404.5	404.6	404.8	405.1	405.3	405.5	405.3	405.1	404.8
180°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-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°	3.9	4.4	5.2	6.9	8.6	10.3	12.0	11.8	11.7	11.5	11.4
92.5°	9.9	10.2	10.2	10.3	10.4	10.5	10.6	10.7	10.7	10.8	10.9
95°	20.8	21.2	21.3	21.4	21.6	21.7	21.9	21.9	21.9	21.9	21.9
97.5°	32.5	32.8	33.0	33.3	33.6	33.9	34.2	34.2	34.2	34.2	34.2
100°	45.8	46.1	46.2	46.4	46.7	46.9	47.1	47.1	47.1	47.1	47.1
102.5°	59.6	59.8	60.0	60.3	60.6	60.9	61.2	61.3	61.3	61.4	61.5
105°	74.4	74.5	74.6	74.7	74.9	75.0	75.2	75.3	75.5	75.6	75.7
107.5°	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.7	90.8	90.9
110°	106.0	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	122.4	122.6	122.6	122.5	122.4	122.4	122.3	122.1	121.9	121.6	121.4
115°	138.5	138.7	138.6	138.5	138.3	138.2	138.0	137.9	137.9	137.8	137.7
117.5°	155.1	155.4	155.2	154.8	154.5	154.1	153.7	153.5	153.3	153.0	152.8
120°	171.2	171.5	171.2	170.6	170.0	169.4	168.8	168.8	168.8	168.8	168.8
122.5°	186.5	186.9	186.7	186.3	186.0	185.6	185.2	185.0	184.7	184.5	184.2
125°	201.6	201.9	201.8	201.6	201.3	201.1	200.9	200.7	200.5	200.2	200.0
127.5°	217.2	217.6	217.5	217.2	216.9	216.6	216.3	216.0	215.7	215.4	215.1
130°	231.8	232.3	232.2	232.1	231.9	231.8	231.6	231.4	231.3	231.1	231.0
132.5°	246.6	247.0	247.0	247.1	247.2	247.2	247.3	246.9	246.5	246.2	245.8
135°	260.6	261.0	261.1	261.2	261.4	261.5	261.7	261.6	261.6	261.5	261.4
137.5°	275.1	275.4	275.5	275.6	275.7	275.9	276.0	275.9	275.9	275.8	275.7
140°	288.4	288.7	288.9	289.3	289.6	290.0	290.4	290.4	290.4	290.4	290.4
142.5°	302.0	302.3	302.4	302.7	302.9	303.2	303.4	303.5	303.5	303.6	303.7
145°	314.3	314.6	314.8	315.3	315.8	316.2	316.7	316.8	316.8	316.9	317.0
147.5°	326.6	326.9	327.1	327.4	327.7	328.0	328.3	328.5	328.6	328.8	328.9
150°	337.7	337.9	338.0	338.3	338.6	338.9	339.2	339.4	339.7	339.9	340.2
152.5°	348.3	348.5	348.7	349.1	349.4	349.8	350.2	350.5	350.8	351.1	351.4
155°	357.9	358.0	358.1	358.4	358.6	358.9	359.1	359.5	359.9	360.2	360.6
157.5°	366.8	366.9	367.0	367.1	367.3	367.4	367.6	368.1	368.7	369.2	369.7
160°	375.0	375.1	375.1	375.2	375.3	375.4	375.5	375.9	376.4	376.8	377.3
162.5°	381.9	381.9	381.9	382.0	382.1	382.2	382.3	382.8	383.4	383.9	384.4
165°	388.1	388.1	388.1	388.1	388.1	388.1	388.1	388.6	389.2	389.7	390.2
167.5°	393.3	393.2	393.2	393.2	393.2	393.2	393.2	393.7	394.3	394.8	395.3
170°	397.8	397.7	397.7	397.6	397.5	397.4	397.3	397.8	398.4	398.9	399.4
172.5°	400.8	400.7	400.7	400.6	400.5	400.5	400.4	400.9	401.5	402.0	402.5
175°	403.2	403.1	403.0	402.9	402.7	402.6	402.4	402.9	403.5	404.0	404.5
177.5°	404.6	404.5	404.4	404.3	404.1	404.0	403.8	404.3	404.7	405.2	405.7
180°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-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°	11.3	11.3	11.4	11.5	11.5	11.6	11.5	11.5	11.4	11.3	11.3
92.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
95°	21.9	21.8	21.7	21.5	21.4	21.2	21.4	21.5	21.7	21.8	21.9
97.5°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
100°	47.1	47.1	47.0	46.9	46.9	46.8	46.9	46.9	47.0	47.1	47.1
102.5°	61.5	61.5	61.4	61.3	61.3	61.2	61.3	61.3	61.4	61.5	61.5
105°	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
107.5°	90.9	90.7	90.3	90.0	89.6	89.2	89.6	90.0	90.3	90.7	90.9
110°	106.2	106.1	105.9	105.6	105.4	105.2	105.4	105.6	105.9	106.1	106.2

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	121.3	121.2	121.1	120.9	120.8	120.6	120.8	120.9	121.1	121.2	121.3
115°	137.7	137.6	137.4	137.1	136.9	136.7	136.9	137.1	137.4	137.6	137.7
117.5°	152.7	152.6	152.4	152.1	151.9	151.7	151.9	152.1	152.4	152.6	152.7
120°	168.8	168.7	168.4	168.2	167.9	167.7	167.9	168.2	168.4	168.7	168.8
122.5°	184.1	184.0	183.9	183.8	183.6	183.5	183.6	183.8	183.9	184.0	184.1
125°	199.9	199.9	199.8	199.7	199.6	199.5	199.6	199.7	199.8	199.9	199.9
127.5°	214.9	214.8	214.6	214.3	214.1	213.9	214.1	214.3	214.6	214.8	214.9
130°	230.9	230.8	230.5	230.2	229.9	229.6	229.9	230.2	230.5	230.8	230.9
132.5°	245.6	245.5	245.3	245.0	244.8	244.6	244.8	245.0	245.3	245.5	245.6
135°	261.4	261.3	261.0	260.8	260.5	260.3	260.5	260.8	261.0	261.3	261.4
137.5°	275.7	275.5	275.2	274.9	274.6	274.3	274.6	274.9	275.2	275.5	275.7
140°	290.4	290.2	289.9	289.6	289.3	289.0	289.3	289.6	289.9	290.2	290.4
142.5°	303.7	303.5	303.2	302.9	302.6	302.3	302.6	302.9	303.2	303.5	303.7
145°	317.0	316.9	316.6	316.3	316.0	315.7	316.0	316.3	316.6	316.9	317.0
147.5°	329.0	328.8	328.5	328.2	327.9	327.6	327.9	328.2	328.5	328.8	329.0
150°	340.3	340.2	339.9	339.7	339.4	339.2	339.4	339.7	339.9	340.2	340.3
152.5°	351.5	351.4	351.1	350.8	350.5	350.2	350.5	350.8	351.1	351.4	351.5
155°	360.8	360.7	360.4	360.2	359.9	359.7	359.9	360.2	360.4	360.7	360.8
157.5°	370.0	369.8	369.4	369.1	368.7	368.3	368.7	369.1	369.4	369.8	370.0
160°	377.5	377.3	377.0	376.7	376.4	376.1	376.4	376.7	377.0	377.3	377.5
162.5°	384.7	384.5	384.1	383.8	383.4	383.0	383.4	383.8	384.1	384.5	384.7
165°	390.5	390.3	389.9	389.6	389.2	388.8	389.2	389.6	389.9	390.3	390.5
167.5°	395.6	395.4	395.0	394.7	394.3	393.9	394.3	394.7	395.0	395.4	395.6
170°	399.7	399.5	399.0	398.6	398.1	397.7	398.1	398.6	399.0	399.5	399.7
172.5°	402.8	402.6	402.1	401.6	401.2	400.7	401.2	401.6	402.1	402.6	402.8
175°	404.8	404.6	404.1	403.7	403.2	402.8	403.2	403.7	404.1	404.6	404.8
177.5°	405.9	405.7	405.2	404.7	404.3	403.8	404.3	404.7	405.2	405.7	405.9
180°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-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°	11.4	11.5	11.7	11.8	12.0	10.3	8.6	6.9	5.2	4.4	3.9
92.5°	10.9	10.8	10.7	10.7	10.6	10.5	10.4	10.3	10.2	10.2	9.9
95°	21.9	21.9	21.9	21.9	21.9	21.7	21.6	21.4	21.3	21.2	20.8
97.5°	34.2	34.2	34.2	34.2	34.2	33.9	33.6	33.3	33.0	32.8	32.5
100°	47.1	47.1	47.1	47.1	47.1	46.9	46.7	46.4	46.2	46.1	45.8
102.5°	61.5	61.4	61.3	61.3	61.2	60.9	60.6	60.3	60.0	59.8	59.6
105°	75.7	75.6	75.5	75.3	75.2	75.0	74.9	74.7	74.6	74.5	74.4
107.5°	90.9	90.8	90.7	90.6	90.5	90.5	90.5	90.5	90.5	90.5	90.4
110°	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.0

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	121.4	121.6	121.9	122.1	122.3	122.4	122.4	122.5	122.6	122.6	122.4
115°	137.7	137.8	137.9	137.9	138.0	138.2	138.3	138.5	138.6	138.7	138.5
117.5°	152.8	153.0	153.3	153.5	153.7	154.1	154.5	154.8	155.2	155.4	155.1
120°	168.8	168.8	168.8	168.8	168.8	169.4	170.0	170.6	171.2	171.5	171.2
122.5°	184.2	184.5	184.7	185.0	185.2	185.6	186.0	186.3	186.7	186.9	186.5
125°	200.0	200.2	200.5	200.7	200.9	201.1	201.3	201.6	201.8	201.9	201.6
127.5°	215.1	215.4	215.7	216.0	216.3	216.6	216.9	217.2	217.5	217.6	217.2
130°	231.0	231.1	231.3	231.4	231.6	231.8	231.9	232.1	232.2	232.3	231.8
132.5°	245.8	246.2	246.5	246.9	247.3	247.2	247.2	247.1	247.0	247.0	246.6
135°	261.4	261.5	261.6	261.6	261.7	261.5	261.4	261.2	261.1	261.0	260.6
137.5°	275.7	275.8	275.9	275.9	276.0	275.9	275.7	275.6	275.5	275.4	275.1
140°	290.4	290.4	290.4	290.4	290.4	290.0	289.6	289.3	288.9	288.7	288.4
142.5°	303.7	303.6	303.5	303.5	303.4	303.2	302.9	302.7	302.4	302.3	302.0
145°	317.0	316.9	316.8	316.8	316.7	316.2	315.8	315.3	314.8	314.6	314.3
147.5°	328.9	328.8	328.6	328.5	328.3	328.0	327.7	327.4	327.1	326.9	326.6
150°	340.2	339.9	339.7	339.4	339.2	338.9	338.6	338.3	338.0	337.9	337.7
152.5°	351.4	351.1	350.8	350.5	350.2	349.8	349.4	349.1	348.7	348.5	348.3
155°	360.6	360.2	359.9	359.5	359.1	358.9	358.6	358.4	358.1	358.0	357.9
157.5°	369.7	369.2	368.7	368.1	367.6	367.4	367.3	367.1	367.0	366.9	366.8
160°	377.3	376.8	376.4	375.9	375.5	375.4	375.3	375.2	375.1	375.1	375.0
162.5°	384.4	383.9	383.4	382.8	382.3	382.2	382.1	382.0	381.9	381.9	381.9
165°	390.2	389.7	389.2	388.6	388.1	388.1	388.1	388.1	388.1	388.1	388.1
167.5°	395.3	394.8	394.3	393.7	393.2	393.2	393.2	393.2	393.2	393.2	393.3
170°	399.4	398.9	398.4	397.8	397.3	397.4	397.5	397.6	397.7	397.7	397.8
172.5°	402.5	402.0	401.5	400.9	400.4	400.5	400.5	400.6	400.7	400.7	400.8
175°	404.5	404.0	403.5	402.9	402.4	402.6	402.7	402.9	403.0	403.1	403.2
177.5°	405.7	405.2	404.7	404.3	403.8	404.0	404.1	404.3	404.4	404.5	404.6
180°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-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°	3.0	2.1	1.2	0.3
92.5°	9.3	8.7	8.1	7.5
95°	20.1	19.3	18.6	17.8
97.5°	31.8	31.1	30.4	29.7
100°	45.2	44.6	44.0	43.4
102.5°	59.1	58.6	58.2	57.7
105°	74.2	73.9	73.7	73.5
107.5°	90.1	89.8	89.5	89.2
110°	105.5	105.1	104.6	104.2

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	121.9	121.5	121.0	120.6
115°	138.0	137.6	137.1	136.7
117.5°	154.5	153.9	153.3	152.7
120°	170.6	170.0	169.4	168.8
122.5°	185.8	185.0	184.3	183.5
125°	200.9	200.2	199.5	198.8
127.5°	216.4	215.5	214.7	213.9
130°	230.8	229.9	228.9	227.9
132.5°	245.9	245.1	244.4	243.6
135°	259.8	258.9	258.1	257.3
137.5°	274.4	273.7	273.0	272.3
140°	287.7	287.0	286.3	285.6
142.5°	301.3	300.6	300.0	299.3
145°	313.8	313.3	312.8	312.3
147.5°	325.9	325.2	324.6	323.9
150°	337.2	336.7	336.3	335.8
152.5°	347.8	347.3	346.9	346.4
155°	357.7	357.4	357.2	357.0
157.5°	366.7	366.5	366.4	366.2
160°	374.9	374.7	374.6	374.4
162.5°	381.9	381.9	381.9	381.9
165°	388.2	388.3	388.3	388.4
167.5°	393.5	393.8	394.0	394.2
170°	398.0	398.3	398.5	398.7
172.5°	401.1	401.3	401.6	401.8
175°	403.5	403.7	404.0	404.2
177.5°	404.8	405.1	405.3	405.5
180°	404.8	404.8	404.8	404.8

TEST NUMBER: P998190

CATALOG NUMBER: SA2XXDIP-B290D330UB50-4F0-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	13.56	14.41	14.51	15.36	16.61	11.05	11.90	12.00	12.86	14.10
	3H	14.37	15.13	15.33	16.09	17.36	12.40	13.15	13.36	14.12	15.39
	4H	14.54	15.25	15.51	16.22	17.50	12.86	13.57	13.83	14.55	15.82
	6H	14.58	15.24	15.57	16.22	17.51	13.17	13.82	14.15	14.80	16.09
	8H	14.56	15.19	15.55	16.18	17.47	13.25	13.87	14.24	14.87	16.16
	12H	14.52	15.12	15.52	16.11	17.42	13.29	13.88	14.29	14.87	16.18
4H	2H	13.60	14.31	14.58	15.29	16.56	11.50	12.21	12.48	13.18	14.46
	3H	14.58	15.17	15.57	16.17	17.47	12.96	13.55	13.95	14.55	15.84
	4H	14.86	15.40	15.85	16.39	17.71	13.49	14.03	14.49	15.03	16.34
	6H	14.99	15.45	15.99	16.47	17.78	13.87	14.34	14.88	15.35	16.67
	8H	14.98	15.42	15.99	16.43	17.76	13.98	14.41	14.99	15.43	16.75
	12H	14.95	15.34	15.97	16.37	17.70	14.04	14.43	15.06	15.46	16.79
8H	4H	14.86	15.30	15.87	16.31	17.64	13.63	14.07	14.64	15.08	16.41
	6H	15.04	15.40	16.07	16.45	17.78	14.07	14.42	15.10	15.48	16.80
	8H	15.07	15.39	16.11	16.43	17.77	14.22	14.53	15.26	15.57	16.92
	12H	15.06	15.33	16.10	16.37	17.76	14.31	14.59	15.35	15.62	17.01
12H	4H	14.82	15.21	15.85	16.24	17.57	13.61	14.00	14.63	15.02	16.36
	6H	15.02	15.34	16.06	16.38	17.72	14.07	14.38	15.11	15.42	16.77
	8H	15.05	15.33	16.10	16.36	17.75	14.22	14.50	15.27	15.53	16.92