

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: P998163

Luminaire Tested: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998163
REPORT IS A COMBINATION OF REPORTS P983903 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

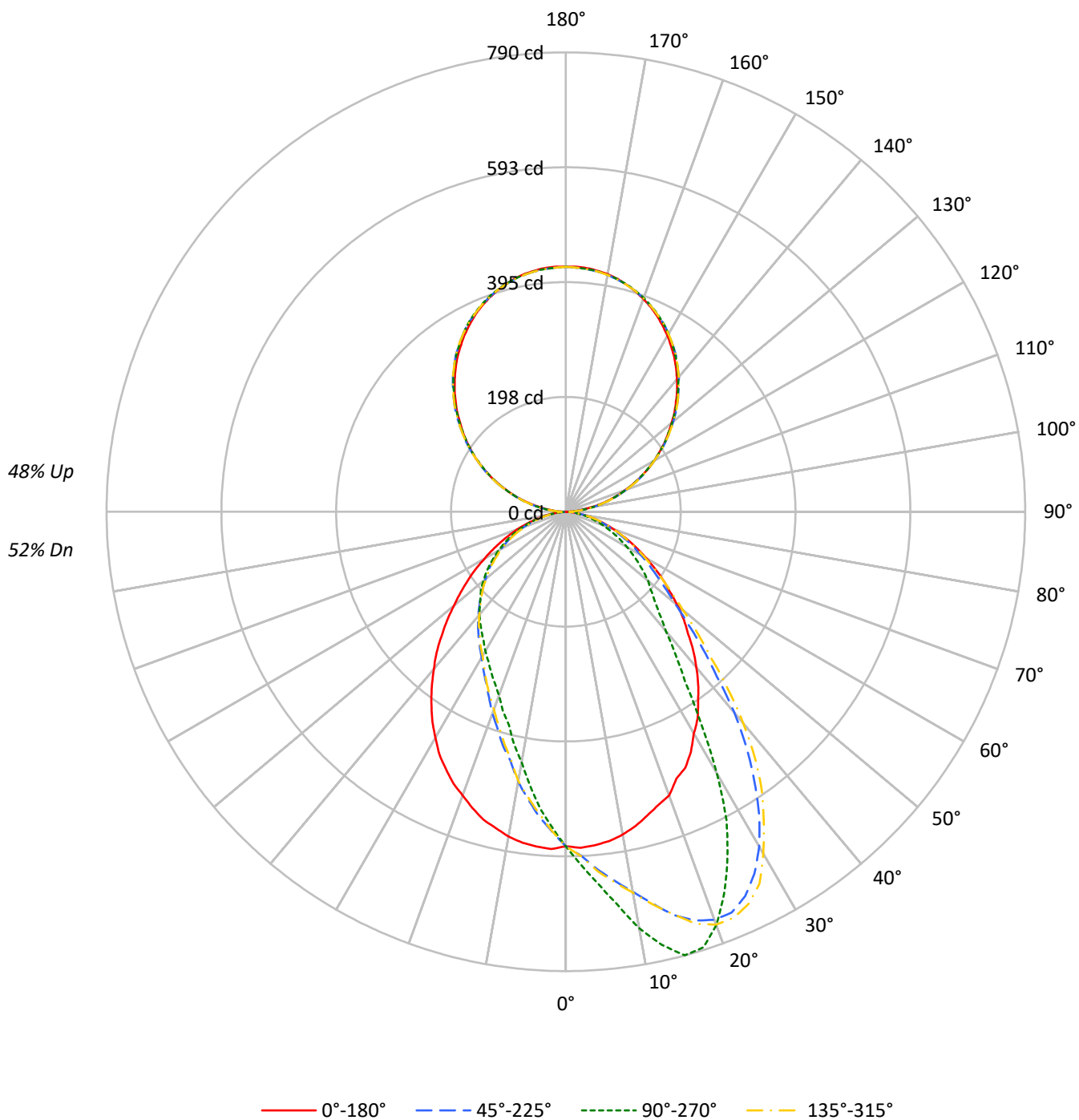
Lumens per Lamp: N/A
Luminaire Lumens: 2448.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
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°	9105	9105	9105	9105
5°	9126	9708	9161	7724
10°	9021	10597	9077	6367
15°	8802	11178	8924	5364
20°	8664	10495	8664	4662
25°	8389	9016	8427	4169
30°	7933	7088	8085	3777
35°	7532	4901	7657	3455
40°	7070	3701	7148	3199
45°	6497	3040	6604	2922
50°	6005	2670	6017	2675
55°	5441	2274	5478	2407
60°	4843	1899	4910	2101
65°	4305	1545	4383	1794
70°	3772	1212	3867	1447
75°	3166	880	3289	1049
80°	2467	557	2651	622
85°	1624	280	1752	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9412 cd/sqm

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	2.2
10°-20°	159.5	6.5
20°-30°	231.4	9.5
30°-40°	244.0	10.0
40°-50°	215.9	8.8
50°-60°	172.4	7.0
60°-70°	117.1	4.8
70°-80°	59.9	2.4
80°-90°	15.3	0.6
90°-100°	26.1	1.1
100°-110°	82.9	3.4
110°-120°	141.8	5.8
120°-130°	186.4	7.6
130°-140°	209.3	8.5
140°-150°	205.2	8.4
150°-160°	172.1	7.0
160°-170°	114.2	4.7
170°-180°	39.9	1.6
0°-30°	445.7	18.2
0°-40°	689.6	28.2
0°-60°	1077.9	44.0
0°-90°	1270.2	51.9
90°-120°	250.7	10.2
90°-150°	851.6	34.8
90°-180°	1178.0	48.1
0°-180°	2448.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	575	575	575	575	575	
5°	576	642	578	511	576	55
15°	541	790	548	379	541	153
25°	486	658	488	304	486	222
35°	397	358	403	252	397	248
45°	298	216	302	207	298	231
55°	204	152	206	160	204	182
65°	121	93	123	108	121	120
75°	57	46	59	55	57	61
85°	12	12	12	9	12	13
90°	0	12	0	12	0	2
95°	18	22	18	22	18	21
105°	76	79	76	79	76	81
115°	142	142	142	142	142	141
125°	207	208	207	208	207	185
135°	268	271	268	271	268	207
145°	325	328	325	328	325	203
155°	372	374	372	374	372	171
165°	404	405	404	405	404	114
175°	421	419	421	419	421	40
180°	421	421	421	421	421	

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	578.3	579.6	581.8	582.2	586.7	590.2	594.2	594.2	595.5	595.1	591.5
5°	575.6	579.6	585.3	590.2	598.2	601.7	607.0	611.0	614.5	617.2	616.7
7.5°	571.2	578.3	586.7	595.9	606.6	612.7	620.3	627.3	632.2	636.6	639.7
10°	563.7	575.6	587.1	599.5	613.2	621.6	630.4	639.7	647.2	655.6	663.6
12.5°	553.5	570.7	584.9	601.3	618.1	627.3	641.5	648.6	663.1	684.4	690.1
15°	540.7	564.1	577.4	598.2	620.3	627.8	647.2	658.7	688.8	702.1	718.0
17.5°	528.7	554.8	572.5	596.4	618.1	632.6	651.7	675.1	700.3	719.3	737.0
20°	519.0	544.2	565.4	592.0	619.4	637.9	657.8	686.1	713.5	733.0	746.7
22.5°	496.9	529.2	553.9	583.6	616.7	642.4	661.4	692.3	721.9	733.9	745.8
25°	485.9	513.7	542.5	576.1	615.0	645.5	661.8	696.3	722.4	726.8	729.5
27.5°	465.5	496.9	530.5	569.0	614.5	640.2	660.9	692.3	713.1	710.0	702.1
30°	440.3	478.8	515.9	557.5	608.3	636.2	655.6	684.4	695.0	679.1	664.9
32.5°	421.8	458.0	499.1	547.3	601.3	627.8	646.8	669.3	671.5	642.8	618.9
35°	396.6	436.8	483.2	534.1	589.3	613.2	630.9	644.6	634.0	593.7	565.4
37.5°	374.0	413.8	463.3	515.0	573.0	596.4	610.5	612.7	586.7	551.3	509.7
40°	349.3	390.4	442.1	496.5	554.8	575.2	584.0	577.4	539.8	498.7	450.5
42.5°	324.5	365.2	420.9	476.6	531.8	549.1	552.6	534.5	488.5	440.3	384.6
45°	297.5	340.0	395.7	451.8	505.3	515.0	515.5	489.4	435.0	384.6	332.9
47.5°	275.4	314.8	370.0	426.2	471.3	477.9	475.3	445.2	386.0	329.4	284.3
50°	251.1	288.7	343.5	398.8	437.2	439.0	432.4	389.5	331.6	279.8	244.0
52.5°	225.0	263.0	313.4	366.5	401.0	398.3	385.5	339.5	285.2	242.3	214.9
55°	204.2	237.8	285.2	336.9	361.2	353.7	339.5	292.7	249.8	213.5	189.7
57.5°	181.3	210.9	257.3	302.4	316.5	309.5	295.3	251.6	211.8	184.4	168.4
60°	159.6	186.6	227.2	264.8	275.9	268.4	252.0	212.6	183.9	160.9	149.0
62.5°	139.7	163.1	197.2	231.7	236.1	228.6	214.4	182.6	157.8	139.7	130.9
65°	121.1	143.2	170.6	196.7	200.7	192.8	178.2	155.2	134.4	122.9	114.5
67.5°	103.0	120.7	145.0	164.0	166.2	158.7	146.8	128.2	115.4	103.0	96.8
70°	87.1	100.4	119.4	134.8	135.7	128.7	122.5	105.7	95.9	87.1	82.2
72.5°	71.6	80.9	95.5	107.0	107.4	103.0	97.3	86.7	78.3	72.1	67.2
75°	56.6	64.5	73.4	83.6	83.1	79.6	75.2	68.5	61.5	57.5	55.3
77.5°	43.3	48.2	55.3	61.9	61.9	60.1	57.5	52.6	48.2	44.2	42.0
80°	30.9	34.0	39.8	42.0	42.9	42.4	40.2	36.7	34.9	31.8	30.9
82.5°	19.9	22.1	24.8	27.0	28.3	27.4	27.0	25.2	22.5	21.7	20.8
85°	11.5	12.4	13.7	15.0	15.5	15.0	15.9	14.6	13.3	13.3	12.8
87.5°	4.9	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	9.1	9.7	10.4	10.7	10.7	10.8	10.9	10.9	11.0
95°	18.5	19.3	20.1	20.8	21.6	22.0	22.1	22.3	22.4	22.6	22.8
97.5°	30.9	31.6	32.3	33.0	33.7	34.1	34.3	34.6	34.9	35.3	35.6
100°	45.1	45.7	46.4	47.0	47.7	48.0	48.1	48.4	48.6	48.9	49.1
102.5°	60.1	60.6	61.0	61.5	62.0	62.2	62.4	62.7	63.0	63.3	63.6
105°	76.4	76.6	76.9	77.1	77.4	77.5	77.6	77.7	77.9	78.0	78.2
107.5°	92.8	93.1	93.4	93.7	94.0	94.2	94.2	94.2	94.2	94.2	94.2
110°	108.4	108.9	109.4	109.9	110.4	110.6	110.6	110.6	110.6	110.6	110.6

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	125.5	126.0	126.4	126.9	127.4	127.6	127.6	127.5	127.4	127.4	127.3
115°	142.2	142.7	143.1	143.6	144.1	144.3	144.2	144.1	143.9	143.8	143.6
117.5°	158.9	159.5	160.2	160.8	161.5	161.8	161.6	161.2	160.8	160.4	160.0
120°	175.6	176.2	176.9	177.5	178.2	178.5	178.2	177.5	176.9	176.2	175.6
122.5°	190.9	191.7	192.5	193.3	194.1	194.5	194.3	193.9	193.5	193.1	192.7
125°	206.9	207.6	208.3	209.0	209.7	210.1	210.0	209.7	209.5	209.2	209.0
127.5°	222.5	223.4	224.3	225.2	226.1	226.5	226.3	226.0	225.7	225.3	225.0
130°	237.1	238.1	239.1	240.2	241.2	241.7	241.6	241.5	241.3	241.2	241.0
132.5°	253.5	254.3	255.1	255.8	256.6	257.0	257.0	257.1	257.2	257.3	257.4
135°	267.7	268.6	269.4	270.3	271.2	271.6	271.7	271.8	272.0	272.1	272.3
137.5°	283.3	284.0	284.7	285.4	286.1	286.5	286.6	286.7	286.9	287.0	287.2
140°	297.2	297.9	298.6	299.3	300.0	300.4	300.6	301.0	301.4	301.8	302.2
142.5°	311.4	312.1	312.8	313.5	314.2	314.6	314.7	315.0	315.2	315.5	315.7
145°	324.9	325.5	326.0	326.6	327.1	327.4	327.6	328.1	328.6	329.1	329.6
147.5°	337.0	337.7	338.4	339.1	339.8	340.2	340.4	340.7	341.0	341.3	341.6
150°	349.5	350.0	350.4	350.9	351.4	351.6	351.8	352.1	352.4	352.7	353.0
152.5°	360.5	361.0	361.4	361.9	362.4	362.6	362.8	363.2	363.6	364.0	364.4
155°	371.5	371.7	372.0	372.2	372.5	372.6	372.7	372.9	373.2	373.4	373.6
157.5°	381.1	381.3	381.4	381.6	381.7	381.8	381.9	382.0	382.2	382.3	382.5
160°	389.6	389.8	389.9	390.1	390.2	390.3	390.3	390.4	390.5	390.6	390.7
162.5°	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.6	397.7	397.7	397.8
165°	404.2	404.1	404.1	404.0	403.9	403.9	403.9	403.9	403.9	403.9	403.9
167.5°	410.3	410.1	409.8	409.6	409.3	409.2	409.2	409.2	409.2	409.2	409.2
170°	414.9	414.7	414.4	414.2	413.9	413.8	413.8	413.7	413.6	413.6	413.5
172.5°	418.1	417.9	417.6	417.4	417.1	417.0	417.0	416.9	416.8	416.8	416.7
175°	420.6	420.4	420.1	419.9	419.6	419.5	419.4	419.3	419.1	419.0	418.8
177.5°	422.0	421.8	421.5	421.3	421.0	420.9	420.8	420.7	420.5	420.4	420.2
180°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	597.7	598.2	599.0	603.5	605.7	606.1	604.3	608.3	609.7	608.3	607.4
5°	626.0	628.7	634.0	639.7	639.3	639.7	642.4	645.0	645.9	642.4	643.7
7.5°	650.8	656.1	661.8	670.7	670.7	675.1	676.9	679.1	684.4	681.7	680.8
10°	679.1	686.1	696.7	710.9	711.3	715.8	720.2	727.3	729.5	727.7	728.6
12.5°	714.4	728.1	729.0	744.5	751.6	752.5	759.5	758.2	762.6	762.6	770.1
15°	729.9	751.1	763.1	778.1	782.5	777.2	783.0	789.1	789.6	789.6	789.1
17.5°	757.8	766.2	778.1	786.1	787.8	787.8	788.3	790.9	789.1	785.6	788.3
20°	763.5	767.0	771.5	770.6	771.5	767.0	762.6	758.2	758.6	756.4	763.1
22.5°	752.9	752.0	741.8	735.2	735.2	726.4	718.0	714.0	710.0	711.3	713.5
25°	726.4	712.7	700.3	690.6	688.3	674.2	662.7	659.2	652.5	657.8	658.7
27.5°	683.9	668.5	648.6	640.2	628.7	622.9	615.0	604.3	590.6	598.6	597.3
30°	638.4	615.4	599.0	578.7	560.6	559.3	544.2	526.5	519.5	519.5	523.4
32.5°	587.5	557.0	533.2	504.4	486.8	479.2	461.1	443.4	447.4	434.1	439.0
35°	528.3	488.1	458.0	430.2	416.9	408.1	384.6	374.9	364.3	358.1	369.6
37.5°	471.7	425.3	386.8	356.3	351.5	335.6	319.6	313.4	307.3	309.9	309.5
40°	402.8	361.6	327.2	303.3	294.9	287.4	276.8	269.2	265.3	267.5	267.9
42.5°	340.4	305.9	280.3	263.5	256.4	251.1	245.8	239.6	238.3	238.3	240.1
45°	292.2	263.9	246.7	233.0	229.0	225.0	221.0	218.4	217.5	215.7	217.1
47.5°	253.8	231.2	220.6	210.4	206.0	205.1	201.6	200.3	198.5	198.1	198.5
50°	221.5	207.3	197.6	191.9	188.8	187.4	185.7	183.0	182.1	184.4	183.5
52.5°	198.9	185.7	180.4	174.6	172.9	171.1	168.4	168.9	168.4	167.6	167.6
55°	176.4	168.0	162.7	158.3	157.8	156.1	153.9	153.0	152.5	151.6	153.0
57.5°	158.3	151.6	146.8	142.8	141.0	141.0	138.8	137.1	137.1	136.6	137.1
60°	140.1	133.5	130.4	126.4	125.1	124.7	123.3	122.5	121.1	121.1	121.1
62.5°	123.3	118.0	114.5	111.0	111.4	109.2	107.4	106.5	106.5	107.0	107.0
65°	107.4	103.9	99.5	96.4	95.5	95.1	94.2	93.7	92.4	93.3	93.3
67.5°	92.8	88.0	85.3	84.0	82.7	82.2	81.3	80.5	80.0	79.6	80.5
70°	78.3	74.3	72.1	71.2	69.9	69.4	69.0	67.6	68.1	68.5	69.0
72.5°	65.0	61.5	61.0	58.4	58.4	58.4	56.6	57.5	57.0	56.1	57.0
75°	51.3	49.5	48.6	47.3	47.7	47.3	46.9	45.5	45.5	46.0	46.4
77.5°	40.7	38.9	38.5	37.1	36.3	37.1	36.3	35.8	35.8	36.3	36.3
80°	30.1	29.2	27.9	27.9	27.9	27.4	27.4	27.4	27.0	26.5	27.0
82.5°	19.9	19.9	19.5	19.0	19.5	18.6	19.0	19.0	19.0	19.0	19.0
85°	12.8	12.4	12.4	11.9	11.9	11.9	12.4	11.5	11.5	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	12.0	12.1	12.0
92.5°	11.1	11.2	11.3	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
95°	22.8	22.8	22.8	22.8	22.8	22.7	22.5	22.4	22.2	22.0	22.2
97.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
100°	49.1	49.1	49.1	49.1	49.1	49.1	49.0	48.9	48.8	48.7	48.8
102.5°	63.7	63.8	63.9	64.0	64.0	64.0	63.9	63.8	63.7	63.6	63.7
105°	78.4	78.5	78.7	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9
107.5°	94.3	94.4	94.5	94.6	94.6	94.4	94.0	93.6	93.2	92.8	93.2
110°	110.6	110.6	110.6	110.6	110.6	110.5	110.2	110.0	109.7	109.5	109.7

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	127.1	126.8	126.6	126.3	126.2	126.1	126.0	125.8	125.7	125.5	125.7
115°	143.5	143.5	143.4	143.3	143.3	143.2	142.9	142.7	142.4	142.2	142.4
117.5°	159.8	159.5	159.3	159.0	158.9	158.8	158.5	158.3	158.0	157.8	158.0
120°	175.6	175.6	175.6	175.6	175.6	175.5	175.3	175.0	174.8	174.6	174.8
122.5°	192.5	192.2	192.0	191.7	191.6	191.5	191.4	191.2	191.1	190.9	191.1
125°	208.8	208.6	208.3	208.1	208.0	208.0	207.9	207.8	207.7	207.6	207.7
127.5°	224.7	224.4	224.1	223.8	223.6	223.5	223.2	223.0	222.7	222.5	222.7
130°	240.8	240.7	240.5	240.4	240.3	240.1	239.8	239.5	239.2	238.9	239.2
132.5°	257.0	256.6	256.2	255.8	255.6	255.5	255.2	255.0	254.7	254.5	254.7
135°	272.2	272.2	272.1	272.0	272.0	271.9	271.6	271.4	271.1	270.9	271.1
137.5°	287.1	287.1	287.0	286.9	286.9	286.7	286.4	286.1	285.8	285.5	285.8
140°	302.2	302.2	302.2	302.2	302.2	302.0	301.7	301.4	301.1	300.8	301.1
142.5°	315.8	315.8	315.9	316.0	316.0	315.8	315.5	315.2	314.9	314.6	314.9
145°	329.7	329.7	329.8	329.9	329.9	329.7	329.4	329.1	328.8	328.5	328.8
147.5°	341.8	342.0	342.1	342.3	342.4	342.2	341.9	341.6	341.2	340.9	341.2
150°	353.2	353.5	353.7	354.0	354.1	354.0	353.7	353.5	353.2	353.0	353.2
152.5°	364.7	365.0	365.3	365.6	365.8	365.6	365.3	365.0	364.7	364.4	364.7
155°	374.0	374.4	374.8	375.2	375.4	375.3	375.0	374.8	374.5	374.3	374.5
157.5°	383.1	383.6	384.2	384.7	385.0	384.8	384.4	384.0	383.6	383.2	383.6
160°	391.2	391.6	392.1	392.6	392.8	392.6	392.3	392.0	391.7	391.4	391.7
162.5°	398.4	398.9	399.5	400.0	400.3	400.1	399.7	399.3	398.9	398.5	398.9
165°	404.4	405.0	405.5	406.0	406.3	406.1	405.7	405.4	405.0	404.6	405.0
167.5°	409.8	410.3	410.9	411.4	411.7	411.5	411.1	410.7	410.3	409.9	410.3
170°	414.0	414.6	415.1	415.6	415.9	415.7	415.2	414.7	414.3	413.8	414.3
172.5°	417.2	417.8	418.3	418.8	419.1	418.9	418.4	417.9	417.5	417.0	417.5
175°	419.4	419.9	420.5	421.0	421.3	421.1	420.6	420.1	419.6	419.1	419.6
177.5°	420.7	421.1	421.6	422.1	422.3	422.1	421.6	421.1	420.7	420.2	420.7
180°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	609.7	606.6	603.9	604.3	606.6	604.8	600.4	594.6	592.4	589.8	592.4
5°	646.3	643.7	638.4	638.8	637.5	635.7	628.7	619.8	619.8	612.7	611.9
7.5°	682.6	678.6	675.1	674.2	669.3	665.8	659.6	647.2	642.4	634.0	629.1
10°	723.3	720.2	716.2	711.3	708.7	702.5	692.3	674.2	665.4	653.9	645.5
12.5°	764.4	763.9	755.1	745.4	744.9	735.2	728.1	703.8	691.9	676.4	656.5
15°	790.5	788.3	783.4	778.5	779.9	769.3	753.3	724.6	716.6	698.1	676.9
17.5°	790.0	790.0	788.7	787.8	786.5	783.4	774.6	755.5	742.7	719.3	699.4
20°	764.8	770.6	771.9	771.5	775.9	778.1	777.7	765.7	755.5	734.8	714.4
22.5°	714.4	727.7	733.4	737.0	746.3	751.1	762.6	758.2	755.5	740.1	722.8
25°	667.6	672.0	689.2	690.1	702.9	714.9	726.4	733.9	743.6	737.9	723.3
27.5°	607.0	617.2	629.5	638.8	641.5	665.8	684.8	699.0	721.1	722.8	718.0
30°	538.5	543.3	563.7	576.1	590.2	607.9	635.3	659.6	679.5	697.6	703.8
32.5°	454.9	474.8	486.8	501.8	514.2	545.5	579.1	610.5	633.5	664.0	677.3
35°	378.4	393.9	414.2	420.4	443.0	469.5	513.3	553.5	588.4	619.4	646.3
37.5°	315.2	327.6	349.3	359.0	372.2	406.3	443.0	492.9	534.9	573.0	606.6
40°	271.9	281.2	297.5	300.6	311.7	342.6	372.2	419.1	474.8	526.1	562.8
42.5°	242.3	246.7	257.7	261.7	268.8	289.6	316.1	360.3	412.0	465.1	516.8
45°	221.0	224.1	230.8	234.3	243.2	252.4	274.1	309.5	350.1	403.6	459.3
47.5°	202.0	206.0	208.7	210.9	215.7	225.9	240.1	266.1	305.0	354.1	408.1
50°	186.1	187.4	192.3	192.8	195.8	202.5	215.7	231.7	262.6	302.4	354.6
52.5°	170.2	171.5	174.6	177.7	179.0	184.4	193.2	206.5	229.4	260.8	307.3
55°	154.3	156.1	159.2	161.4	162.7	167.1	172.4	185.2	203.4	225.5	263.5
57.5°	138.4	142.4	143.2	144.6	146.8	151.6	156.5	164.0	178.2	198.5	226.4
60°	123.3	124.7	127.8	129.1	131.3	134.0	140.1	145.9	156.1	172.0	197.2
62.5°	107.9	111.0	112.3	113.6	115.4	118.5	122.5	128.7	137.5	150.3	170.2
65°	94.6	95.1	97.7	99.5	101.2	103.5	107.4	113.2	118.5	130.4	145.0
67.5°	81.8	82.7	83.6	85.3	87.5	89.7	93.3	96.4	103.0	111.0	122.5
70°	69.4	69.4	71.6	72.9	72.5	75.2	77.8	81.3	86.2	93.7	103.0
72.5°	58.4	57.9	59.7	60.1	61.0	62.8	64.5	68.1	70.7	76.5	83.6
75°	46.4	47.3	48.2	48.2	49.5	50.8	52.6	54.4	57.5	61.0	66.3
77.5°	36.7	36.7	37.6	38.0	39.3	38.9	40.7	42.4	44.7	47.7	51.7
80°	27.0	27.9	27.9	27.9	28.3	28.7	30.5	31.8	33.2	35.4	37.1
82.5°	19.0	19.0	19.9	19.9	19.9	20.8	20.8	21.2	22.1	23.4	24.8
85°	11.9	11.9	11.9	12.4	11.9	12.4	13.3	12.8	13.3	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°	11.4	11.4	11.4	11.4	11.4	11.3	11.2	11.1	11.0	10.9	10.9
95°	22.4	22.5	22.7	22.8	22.8	22.8	22.8	22.8	22.8	22.6	22.4
97.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.3	34.9
100°	48.9	49.0	49.1	49.1	49.1	49.1	49.1	49.1	49.1	48.9	48.6
102.5°	63.8	63.9	64.0	64.0	64.0	63.9	63.8	63.7	63.6	63.3	63.0
105°	78.9	78.9	78.9	78.9	78.8	78.7	78.5	78.4	78.2	78.0	77.9
107.5°	93.6	94.0	94.4	94.6	94.6	94.5	94.4	94.3	94.2	94.2	94.2
110°	110.0	110.2	110.5	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	125.8	126.0	126.1	126.2	126.3	126.6	126.8	127.1	127.3	127.4	127.4
115°	142.7	142.9	143.2	143.3	143.3	143.4	143.5	143.5	143.6	143.8	143.9
117.5°	158.3	158.5	158.8	158.9	159.0	159.3	159.5	159.8	160.0	160.4	160.8
120°	175.0	175.3	175.5	175.6	175.6	175.6	175.6	175.6	175.6	176.2	176.9
122.5°	191.2	191.4	191.5	191.6	191.7	192.0	192.2	192.5	192.7	193.1	193.5
125°	207.8	207.9	208.0	208.0	208.1	208.3	208.6	208.8	209.0	209.2	209.5
127.5°	223.0	223.2	223.5	223.6	223.8	224.1	224.4	224.7	225.0	225.3	225.7
130°	239.5	239.8	240.1	240.3	240.4	240.5	240.7	240.8	241.0	241.2	241.3
132.5°	255.0	255.2	255.5	255.6	255.8	256.2	256.6	257.0	257.4	257.3	257.2
135°	271.4	271.6	271.9	272.0	272.0	272.1	272.2	272.2	272.3	272.1	272.0
137.5°	286.1	286.4	286.7	286.9	286.9	287.0	287.1	287.1	287.2	287.0	286.9
140°	301.4	301.7	302.0	302.2	302.2	302.2	302.2	302.2	302.2	301.8	301.4
142.5°	315.2	315.5	315.8	316.0	316.0	315.9	315.8	315.8	315.7	315.5	315.2
145°	329.1	329.4	329.7	329.9	329.9	329.8	329.7	329.7	329.6	329.1	328.6
147.5°	341.6	341.9	342.2	342.4	342.3	342.1	342.0	341.8	341.6	341.3	341.0
150°	353.5	353.7	354.0	354.1	354.0	353.7	353.5	353.2	353.0	352.7	352.4
152.5°	365.0	365.3	365.6	365.8	365.6	365.3	365.0	364.7	364.4	364.0	363.6
155°	374.8	375.0	375.3	375.4	375.2	374.8	374.4	374.0	373.6	373.4	373.2
157.5°	384.0	384.4	384.8	385.0	384.7	384.2	383.6	383.1	382.5	382.3	382.2
160°	392.0	392.3	392.6	392.8	392.6	392.1	391.6	391.2	390.7	390.6	390.5
162.5°	399.3	399.7	400.1	400.3	400.0	399.5	398.9	398.4	397.8	397.7	397.7
165°	405.4	405.7	406.1	406.3	406.0	405.5	405.0	404.4	403.9	403.9	403.9
167.5°	410.7	411.1	411.5	411.7	411.4	410.9	410.3	409.8	409.2	409.2	409.2
170°	414.7	415.2	415.7	415.9	415.6	415.1	414.6	414.0	413.5	413.6	413.6
172.5°	417.9	418.4	418.9	419.1	418.8	418.3	417.8	417.2	416.7	416.8	416.8
175°	420.1	420.6	421.1	421.3	421.0	420.5	419.9	419.4	418.8	419.0	419.1
177.5°	421.1	421.6	422.1	422.3	422.1	421.6	421.1	420.7	420.2	420.4	420.5
180°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	590.2	588.0	586.7	587.5	584.9	578.3	578.3	580.5	577.8	575.2	571.2
5°	606.6	602.1	599.5	599.0	592.9	582.2	580.0	577.8	572.1	565.9	559.3
7.5°	622.5	614.5	610.1	607.0	598.2	584.5	578.7	573.8	564.6	555.3	546.9
10°	635.7	624.2	618.9	614.1	602.6	585.3	576.1	567.2	555.3	543.3	532.7
12.5°	646.3	633.1	626.5	619.4	605.2	582.7	571.2	557.0	545.1	529.2	518.6
15°	664.0	636.6	630.4	623.8	609.2	578.3	564.1	548.2	531.8	510.6	499.1
17.5°	678.2	641.5	641.0	626.9	607.9	576.5	554.8	534.1	516.4	495.2	477.0
20°	686.6	649.0	641.9	627.3	603.5	564.6	542.0	519.0	500.0	474.4	456.2
22.5°	693.7	659.6	641.0	623.4	594.2	560.6	527.4	505.8	479.7	451.8	434.6
25°	696.3	661.8	642.4	622.0	587.5	549.1	511.5	488.1	458.9	433.7	410.3
27.5°	696.7	661.4	637.5	616.3	578.3	534.1	495.6	470.8	438.6	409.4	386.0
30°	692.3	656.5	634.9	611.9	569.4	520.3	476.1	448.7	414.2	385.1	360.8
32.5°	679.1	646.8	629.1	603.9	557.9	501.3	457.6	427.1	390.8	362.1	338.6
35°	657.0	634.9	615.4	592.0	542.9	483.7	439.0	403.2	366.5	339.1	317.0
37.5°	629.5	617.6	599.5	576.5	525.7	467.7	418.2	378.4	341.7	315.2	293.6
40°	592.4	595.5	577.8	557.0	505.3	446.1	391.3	353.2	318.8	294.0	272.8
42.5°	552.2	565.0	554.8	534.9	482.8	422.2	371.4	329.4	295.8	270.1	252.4
45°	508.9	531.0	524.8	510.2	459.3	397.0	343.1	302.4	272.8	248.0	232.5
47.5°	461.6	492.9	492.9	482.3	433.3	371.8	318.8	277.2	248.0	230.3	215.3
50°	413.4	448.7	454.5	447.4	404.1	343.1	289.1	251.6	226.4	209.1	198.1
52.5°	363.0	404.1	414.7	411.2	373.1	315.7	264.8	228.1	205.1	190.1	180.4
55°	314.8	362.5	374.0	375.3	340.0	285.6	237.8	205.6	183.5	173.3	164.9
57.5°	269.2	315.2	328.0	330.2	306.4	258.2	212.6	184.4	164.5	156.1	149.4
60°	230.3	268.8	285.6	290.5	269.7	226.4	189.2	161.8	146.8	138.8	132.6
62.5°	198.5	229.4	247.1	248.5	239.2	198.5	164.9	141.9	129.1	122.0	118.9
65°	167.6	195.4	206.0	211.3	203.8	172.0	142.4	123.3	113.2	107.0	103.9
67.5°	142.8	160.5	169.3	176.4	168.9	145.0	121.1	105.7	98.1	92.0	90.2
70°	117.2	131.7	138.4	145.5	138.8	120.7	103.5	89.3	82.7	77.8	75.6
72.5°	93.7	105.2	111.4	115.8	111.9	96.8	82.7	72.9	68.1	64.5	63.2
75°	74.3	82.2	85.8	88.9	87.1	75.6	66.8	58.8	54.4	51.3	50.4
77.5°	56.6	62.3	66.3	67.2	65.0	57.5	50.0	45.1	41.6	39.8	38.9
80°	40.2	43.8	46.0	47.3	45.1	42.0	36.7	33.2	30.1	27.9	27.4
82.5°	27.0	28.7	30.5	30.1	29.2	26.5	23.4	21.7	20.3	18.6	18.6
85°	15.5	15.9	16.8	17.2	16.8	15.0	13.3	12.4	11.5	10.2	10.2
87.5°	6.6	7.1	7.1	7.5	6.6	6.6	5.7	4.9	4.9	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°	10.8	10.7	10.7	10.4	9.7	9.1	8.4	7.8	8.4	9.1	9.7
95°	22.3	22.1	22.0	21.6	20.8	20.1	19.3	18.5	19.3	20.1	20.8
97.5°	34.6	34.3	34.1	33.7	33.0	32.3	31.6	30.9	31.6	32.3	33.0
100°	48.4	48.1	48.0	47.7	47.0	46.4	45.7	45.1	45.7	46.4	47.0
102.5°	62.7	62.4	62.2	62.0	61.5	61.0	60.6	60.1	60.6	61.0	61.5
105°	77.7	77.6	77.5	77.4	77.1	76.9	76.6	76.4	76.6	76.9	77.1
107.5°	94.2	94.2	94.2	94.0	93.7	93.4	93.1	92.8	93.1	93.4	93.7
110°	110.6	110.6	110.6	110.4	109.9	109.4	108.9	108.4	108.9	109.4	109.9

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	127.5	127.6	127.6	127.4	126.9	126.4	126.0	125.5	126.0	126.4	126.9
115°	144.1	144.2	144.3	144.1	143.6	143.1	142.7	142.2	142.7	143.1	143.6
117.5°	161.2	161.6	161.8	161.5	160.8	160.2	159.5	158.9	159.5	160.2	160.8
120°	177.5	178.2	178.5	178.2	177.5	176.9	176.2	175.6	176.2	176.9	177.5
122.5°	193.9	194.3	194.5	194.1	193.3	192.5	191.7	190.9	191.7	192.5	193.3
125°	209.7	210.0	210.1	209.7	209.0	208.3	207.6	206.9	207.6	208.3	209.0
127.5°	226.0	226.3	226.5	226.1	225.2	224.3	223.4	222.5	223.4	224.3	225.2
130°	241.5	241.6	241.7	241.2	240.2	239.1	238.1	237.1	238.1	239.1	240.2
132.5°	257.1	257.0	257.0	256.6	255.8	255.1	254.3	253.5	254.3	255.1	255.8
135°	271.8	271.7	271.6	271.2	270.3	269.4	268.6	267.7	268.6	269.4	270.3
137.5°	286.7	286.6	286.5	286.1	285.4	284.7	284.0	283.3	284.0	284.7	285.4
140°	301.0	300.6	300.4	300.0	299.3	298.6	297.9	297.2	297.9	298.6	299.3
142.5°	315.0	314.7	314.6	314.2	313.5	312.8	312.1	311.4	312.1	312.8	313.5
145°	328.1	327.6	327.4	327.1	326.6	326.0	325.5	324.9	325.5	326.0	326.6
147.5°	340.7	340.4	340.2	339.8	339.1	338.4	337.7	337.0	337.7	338.4	339.1
150°	352.1	351.8	351.6	351.4	350.9	350.4	350.0	349.5	350.0	350.4	350.9
152.5°	363.2	362.8	362.6	362.4	361.9	361.4	361.0	360.5	361.0	361.4	361.9
155°	372.9	372.7	372.6	372.5	372.2	372.0	371.7	371.5	371.7	372.0	372.2
157.5°	382.0	381.9	381.8	381.7	381.6	381.4	381.3	381.1	381.3	381.4	381.6
160°	390.4	390.3	390.3	390.2	390.1	389.9	389.8	389.6	389.8	389.9	390.1
162.5°	397.6	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5
165°	403.9	403.9	403.9	403.9	404.0	404.1	404.1	404.2	404.1	404.1	404.0
167.5°	409.2	409.2	409.2	409.3	409.6	409.8	410.1	410.3	410.1	409.8	409.6
170°	413.7	413.8	413.8	413.9	414.2	414.4	414.7	414.9	414.7	414.4	414.2
172.5°	416.9	417.0	417.0	417.1	417.4	417.6	417.9	418.1	417.9	417.6	417.4
175°	419.3	419.4	419.5	419.6	419.9	420.1	420.4	420.6	420.4	420.1	419.9
177.5°	420.7	420.8	420.9	421.0	421.3	421.5	421.8	422.0	421.8	421.5	421.3
180°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	569.0	571.2	570.7	566.3	561.5	557.5	550.0	550.9	548.2	548.6	551.3
5°	554.8	554.8	553.1	546.9	538.9	534.5	526.1	523.9	518.6	518.1	517.7
7.5°	539.8	537.6	535.4	526.5	516.8	509.7	498.2	495.6	490.3	486.8	485.0
10°	522.1	519.0	514.6	504.4	492.5	483.7	471.7	468.2	458.0	453.6	450.9
12.5°	502.7	500.9	493.8	485.4	466.0	456.2	439.0	442.5	432.4	423.5	422.2
15°	483.2	476.6	472.6	458.9	435.5	431.0	417.3	410.3	401.0	393.9	393.9
17.5°	464.2	454.0	445.2	430.6	413.4	401.0	390.8	387.3	375.8	368.7	367.4
20°	439.0	427.5	425.3	404.5	392.6	378.9	369.2	360.3	351.9	348.8	346.6
22.5°	415.1	401.9	398.3	380.6	368.7	355.0	345.3	339.1	332.9	330.7	326.7
25°	389.5	381.5	376.2	357.2	344.0	331.1	324.5	320.1	314.3	313.9	311.2
27.5°	364.7	357.2	351.9	333.8	324.1	312.1	306.8	302.0	298.9	297.5	296.2
30°	343.5	335.1	328.9	315.7	303.7	294.0	289.6	286.5	284.7	282.5	282.1
32.5°	320.1	315.2	306.8	296.6	287.4	278.1	275.4	273.2	270.6	269.7	269.2
35°	300.2	293.6	288.2	276.8	272.8	264.8	261.7	260.0	256.4	255.5	254.6
37.5°	280.7	274.5	268.8	261.7	254.2	249.8	248.0	245.4	243.6	244.0	243.2
40°	261.3	256.4	252.0	244.5	240.1	237.8	234.3	231.7	230.8	231.2	230.8
42.5°	242.3	237.8	235.2	229.4	225.0	222.8	220.6	218.0	219.3	219.3	220.6
45°	225.0	221.0	219.3	214.9	212.2	208.7	206.5	206.0	207.8	207.3	207.3
47.5°	207.3	206.0	203.8	199.8	196.3	194.1	193.6	193.6	195.4	196.3	195.8
50°	193.6	191.0	188.3	185.2	182.6	181.7	180.4	181.3	183.0	183.0	183.9
52.5°	176.4	174.6	173.7	171.1	169.3	169.3	169.3	169.8	171.1	172.4	172.0
55°	161.4	160.0	159.2	157.8	155.6	156.1	155.6	156.5	157.8	159.2	160.0
57.5°	145.5	145.0	144.1	141.9	141.9	141.5	142.8	143.2	145.5	146.3	147.7
60°	131.3	130.0	130.0	128.2	128.2	128.2	129.5	130.9	132.6	133.1	134.0
62.5°	116.3	116.3	115.8	114.5	114.5	115.8	116.3	118.0	118.9	118.9	120.3
65°	102.1	101.7	101.2	101.7	102.1	102.1	103.5	104.3	105.2	105.7	106.1
67.5°	88.0	87.5	88.4	88.0	88.9	90.6	90.2	91.5	92.8	92.8	93.3
70°	74.7	75.6	75.2	76.0	75.6	76.5	77.8	78.3	78.3	78.7	80.0
72.5°	62.3	62.3	62.3	61.9	62.3	63.2	64.1	64.5	65.4	65.9	67.2
75°	50.4	50.4	49.5	50.4	50.4	51.3	52.2	52.2	52.2	53.1	54.4
77.5°	38.0	38.5	38.0	38.9	38.9	39.3	40.2	39.8	40.7	41.1	41.6
80°	27.9	27.4	27.4	27.4	27.9	27.9	28.7	29.2	29.2	30.5	29.6
82.5°	17.7	18.1	17.7	18.1	18.1	18.6	18.1	18.6	19.0	19.9	19.5
85°	10.2	9.7	9.7	10.2	9.7	9.7	10.2	9.7	10.2	9.7	10.2
87.5°	4.0	3.5	3.5	3.5	3.5	3.1	3.1	2.7	2.7	2.7	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°	10.4	10.7	10.7	10.8	10.9	10.9	11.0	11.1	11.2	11.3	11.4
95°	21.6	22.0	22.1	22.3	22.4	22.6	22.8	22.8	22.8	22.8	22.8
97.5°	33.7	34.1	34.3	34.6	34.9	35.3	35.6	35.6	35.6	35.6	35.6
100°	47.7	48.0	48.1	48.4	48.6	48.9	49.1	49.1	49.1	49.1	49.1
102.5°	62.0	62.2	62.4	62.7	63.0	63.3	63.6	63.7	63.8	63.9	64.0
105°	77.4	77.5	77.6	77.7	77.9	78.0	78.2	78.4	78.5	78.7	78.8
107.5°	94.0	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.4	94.5	94.6
110°	110.4	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	127.4	127.6	127.6	127.5	127.4	127.4	127.3	127.1	126.8	126.6	126.3
115°	144.1	144.3	144.2	144.1	143.9	143.8	143.6	143.5	143.5	143.4	143.3
117.5°	161.5	161.8	161.6	161.2	160.8	160.4	160.0	159.8	159.5	159.3	159.0
120°	178.2	178.5	178.2	177.5	176.9	176.2	175.6	175.6	175.6	175.6	175.6
122.5°	194.1	194.5	194.3	193.9	193.5	193.1	192.7	192.5	192.2	192.0	191.7
125°	209.7	210.1	210.0	209.7	209.5	209.2	209.0	208.8	208.6	208.3	208.1
127.5°	226.1	226.5	226.3	226.0	225.7	225.3	225.0	224.7	224.4	224.1	223.8
130°	241.2	241.7	241.6	241.5	241.3	241.2	241.0	240.8	240.7	240.5	240.4
132.5°	256.6	257.0	257.0	257.1	257.2	257.3	257.4	257.0	256.6	256.2	255.8
135°	271.2	271.6	271.7	271.8	272.0	272.1	272.3	272.2	272.2	272.1	272.0
137.5°	286.1	286.5	286.6	286.7	286.9	287.0	287.2	287.1	287.1	287.0	286.9
140°	300.0	300.4	300.6	301.0	301.4	301.8	302.2	302.2	302.2	302.2	302.2
142.5°	314.2	314.6	314.7	315.0	315.2	315.5	315.7	315.8	315.8	315.9	316.0
145°	327.1	327.4	327.6	328.1	328.6	329.1	329.6	329.7	329.7	329.8	329.9
147.5°	339.8	340.2	340.4	340.7	341.0	341.3	341.6	341.8	342.0	342.1	342.3
150°	351.4	351.6	351.8	352.1	352.4	352.7	353.0	353.2	353.5	353.7	354.0
152.5°	362.4	362.6	362.8	363.2	363.6	364.0	364.4	364.7	365.0	365.3	365.6
155°	372.5	372.6	372.7	372.9	373.2	373.4	373.6	374.0	374.4	374.8	375.2
157.5°	381.7	381.8	381.9	382.0	382.2	382.3	382.5	383.1	383.6	384.2	384.7
160°	390.2	390.3	390.3	390.4	390.5	390.6	390.7	391.2	391.6	392.1	392.6
162.5°	397.5	397.5	397.5	397.6	397.7	397.7	397.8	398.4	398.9	399.5	400.0
165°	403.9	403.9	403.9	403.9	403.9	403.9	403.9	404.4	405.0	405.5	406.0
167.5°	409.3	409.2	409.2	409.2	409.2	409.2	409.2	409.8	410.3	410.9	411.4
170°	413.9	413.8	413.8	413.7	413.6	413.6	413.5	414.0	414.6	415.1	415.6
172.5°	417.1	417.0	417.0	416.9	416.8	416.8	416.7	417.2	417.8	418.3	418.8
175°	419.6	419.5	419.4	419.3	419.1	419.0	418.8	419.4	419.9	420.5	421.0
177.5°	421.0	420.9	420.8	420.7	420.5	420.4	420.2	420.7	421.1	421.6	422.1
180°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	548.2	549.5	546.4	545.5	546.4	543.3	544.2	545.1	545.1	546.4	547.3
5°	516.4	514.6	511.5	510.6	509.7	511.1	510.2	511.5	511.9	515.0	515.5
7.5°	485.0	482.3	479.7	477.0	476.1	473.9	476.1	476.1	479.2	478.4	480.6
10°	447.8	447.4	443.9	442.5	440.8	437.2	442.1	440.8	443.0	447.0	447.8
12.5°	420.4	415.6	417.8	411.6	413.8	410.3	410.7	410.7	414.2	414.7	413.8
15°	394.4	390.4	384.6	382.0	380.6	378.9	384.6	385.1	382.4	388.6	386.4
17.5°	367.8	367.8	362.5	361.2	357.7	359.4	358.5	359.0	358.1	362.5	364.7
20°	344.8	342.6	340.9	341.3	336.9	336.0	335.1	336.0	339.1	342.2	343.1
22.5°	326.3	324.9	320.5	321.4	317.9	319.2	318.3	320.5	321.0	321.0	324.1
25°	308.6	306.8	307.3	305.5	304.2	304.2	302.8	304.2	305.9	306.8	307.3
27.5°	295.3	294.0	291.8	290.5	291.3	289.1	290.9	292.2	292.2	291.3	292.2
30°	279.4	280.3	280.3	275.9	277.6	276.8	278.1	279.0	279.0	279.4	278.5
32.5°	268.8	266.1	265.7	265.3	265.3	263.5	263.5	264.8	265.3	265.7	267.0
35°	254.6	254.6	252.4	253.8	252.0	252.4	252.0	252.4	253.3	252.0	253.3
37.5°	241.8	242.3	241.4	242.3	242.7	241.8	240.9	242.7	241.8	241.8	240.9
40°	230.8	230.3	230.8	230.8	230.8	231.2	230.3	230.3	230.3	229.4	228.6
42.5°	221.5	218.8	219.7	220.2	218.8	218.8	219.3	218.8	220.2	217.5	217.5
45°	208.2	207.3	207.8	207.8	208.7	207.3	208.2	208.7	207.3	206.9	206.0
47.5°	196.3	197.2	196.3	197.2	197.2	198.1	196.3	196.7	197.2	195.4	194.1
50°	184.4	184.4	185.7	185.2	185.7	184.8	184.8	184.4	184.8	183.9	182.6
52.5°	173.3	172.0	174.2	173.7	173.3	172.9	172.4	172.9	172.0	171.1	171.1
55°	159.6	159.6	160.9	161.4	161.4	160.5	159.6	160.0	159.6	159.2	158.7
57.5°	148.5	146.8	147.7	148.1	148.1	146.8	147.7	146.8	146.8	147.2	145.9
60°	134.4	134.4	133.5	134.8	134.8	134.0	134.0	134.4	133.5	133.1	132.6
62.5°	119.4	119.8	121.1	121.6	122.0	121.1	120.3	120.7	120.7	119.4	119.8
65°	106.5	107.4	109.2	108.8	107.9	108.3	107.4	107.9	106.5	107.0	105.7
67.5°	94.2	93.7	94.2	94.2	95.1	94.6	93.7	93.7	93.3	94.6	93.3
70°	80.9	80.9	80.9	80.9	81.3	81.8	80.9	80.0	80.5	79.6	79.1
72.5°	67.2	67.6	67.2	68.1	66.8	67.6	67.6	67.2	66.8	66.8	66.8
75°	54.4	55.3	53.9	54.4	53.9	54.8	54.4	54.4	53.5	53.1	53.5
77.5°	41.6	42.0	41.1	41.6	41.1	41.6	41.6	41.1	41.1	41.1	41.1
80°	29.6	30.1	29.6	29.2	28.7	29.6	28.7	29.2	29.6	29.2	30.1
82.5°	19.0	19.0	18.6	19.0	18.1	18.1	18.6	18.6	18.1	19.0	18.1
85°	9.3	9.3	10.2	9.3	8.8	8.8	8.8	9.3	8.8	9.7	9.3
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.7	1.8
90°	11.7	11.7	11.8	11.9	12.0	12.1	12.0	11.9	11.8	11.7	11.7
92.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
95°	22.8	22.7	22.5	22.4	22.2	22.0	22.2	22.4	22.5	22.7	22.8
97.5°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6	35.6
100°	49.1	49.1	49.0	48.9	48.8	48.7	48.8	48.9	49.0	49.1	49.1
102.5°	64.0	64.0	63.9	63.8	63.7	63.6	63.7	63.8	63.9	64.0	64.0
105°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
107.5°	94.6	94.4	94.0	93.6	93.2	92.8	93.2	93.6	94.0	94.4	94.6
110°	110.6	110.5	110.2	110.0	109.7	109.5	109.7	110.0	110.2	110.5	110.6

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	126.2	126.1	126.0	125.8	125.7	125.5	125.7	125.8	126.0	126.1	126.2
115°	143.3	143.2	142.9	142.7	142.4	142.2	142.4	142.7	142.9	143.2	143.3
117.5°	158.9	158.8	158.5	158.3	158.0	157.8	158.0	158.3	158.5	158.8	158.9
120°	175.6	175.5	175.3	175.0	174.8	174.6	174.8	175.0	175.3	175.5	175.6
122.5°	191.6	191.5	191.4	191.2	191.1	190.9	191.1	191.2	191.4	191.5	191.6
125°	208.0	208.0	207.9	207.8	207.7	207.6	207.7	207.8	207.9	208.0	208.0
127.5°	223.6	223.5	223.2	223.0	222.7	222.5	222.7	223.0	223.2	223.5	223.6
130°	240.3	240.1	239.8	239.5	239.2	238.9	239.2	239.5	239.8	240.1	240.3
132.5°	255.6	255.5	255.2	255.0	254.7	254.5	254.7	255.0	255.2	255.5	255.6
135°	272.0	271.9	271.6	271.4	271.1	270.9	271.1	271.4	271.6	271.9	272.0
137.5°	286.9	286.7	286.4	286.1	285.8	285.5	285.8	286.1	286.4	286.7	286.9
140°	302.2	302.0	301.7	301.4	301.1	300.8	301.1	301.4	301.7	302.0	302.2
142.5°	316.0	315.8	315.5	315.2	314.9	314.6	314.9	315.2	315.5	315.8	316.0
145°	329.9	329.7	329.4	329.1	328.8	328.5	328.8	329.1	329.4	329.7	329.9
147.5°	342.4	342.2	341.9	341.6	341.2	340.9	341.2	341.6	341.9	342.2	342.4
150°	354.1	354.0	353.7	353.5	353.2	353.0	353.2	353.5	353.7	354.0	354.1
152.5°	365.8	365.6	365.3	365.0	364.7	364.4	364.7	365.0	365.3	365.6	365.8
155°	375.4	375.3	375.0	374.8	374.5	374.3	374.5	374.8	375.0	375.3	375.4
157.5°	385.0	384.8	384.4	384.0	383.6	383.2	383.6	384.0	384.4	384.8	385.0
160°	392.8	392.6	392.3	392.0	391.7	391.4	391.7	392.0	392.3	392.6	392.8
162.5°	400.3	400.1	399.7	399.3	398.9	398.5	398.9	399.3	399.7	400.1	400.3
165°	406.3	406.1	405.7	405.4	405.0	404.6	405.0	405.4	405.7	406.1	406.3
167.5°	411.7	411.5	411.1	410.7	410.3	409.9	410.3	410.7	411.1	411.5	411.7
170°	415.9	415.7	415.2	414.7	414.3	413.8	414.3	414.7	415.2	415.7	415.9
172.5°	419.1	418.9	418.4	417.9	417.5	417.0	417.5	417.9	418.4	418.9	419.1
175°	421.3	421.1	420.6	420.1	419.6	419.1	419.6	420.1	420.6	421.1	421.3
177.5°	422.3	422.1	421.6	421.1	420.7	420.2	420.7	421.1	421.6	422.1	422.3
180°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	546.0	549.5	548.2	543.3	549.1	549.1	553.1	553.1	557.9	559.7	562.3
5°	515.0	517.7	519.9	517.7	521.7	527.9	531.4	534.5	541.1	543.8	547.8
7.5°	481.9	486.8	489.0	489.0	495.6	502.7	509.7	514.2	523.4	527.0	531.0
10°	449.6	455.4	459.8	459.3	470.4	474.8	483.7	493.8	503.1	508.4	514.2
12.5°	415.6	418.7	424.9	433.7	436.4	444.3	454.5	467.3	484.1	489.0	497.4
15°	387.3	395.7	400.5	404.5	410.7	418.2	429.3	441.7	458.5	469.1	477.9
17.5°	363.4	374.5	377.6	376.7	384.6	396.1	408.9	418.2	433.3	446.1	454.5
20°	344.0	348.4	353.7	355.9	362.1	374.5	386.8	397.4	409.8	420.0	429.7
22.5°	324.5	328.0	332.5	336.4	341.3	348.4	360.3	373.6	385.5	395.2	406.3
25°	308.6	310.8	314.8	317.9	323.2	328.0	336.4	351.0	365.2	370.9	380.6
27.5°	293.1	294.9	297.5	301.1	303.7	308.6	316.1	328.0	342.6	348.4	361.6
30°	279.4	280.7	283.4	285.2	286.5	292.2	298.0	307.3	318.3	326.3	336.0
32.5°	266.6	267.9	270.6	271.0	272.8	275.9	281.2	289.6	299.3	305.9	314.3
35°	252.4	253.3	256.0	256.9	258.2	260.8	264.8	271.0	279.8	284.7	292.2
37.5°	241.4	240.9	242.7	244.0	245.8	247.1	248.5	254.6	261.3	265.7	271.4
40°	229.4	228.6	229.0	230.8	231.7	233.4	233.4	239.6	244.0	247.6	252.0
42.5°	217.5	217.1	216.2	217.1	218.0	218.4	218.8	223.3	227.7	230.8	235.6
45°	205.6	205.1	204.2	204.7	204.7	205.6	206.9	208.7	211.8	214.4	217.1
47.5°	194.5	193.6	192.3	191.9	192.8	192.8	192.8	194.5	197.6	198.5	201.2
50°	183.0	181.7	179.9	179.0	179.0	178.6	179.5	179.9	182.6	183.5	185.7
52.5°	170.6	169.8	168.0	166.2	166.7	165.8	166.2	166.7	167.6	168.9	170.2
55°	158.3	156.5	155.2	154.7	153.4	153.4	152.1	153.9	153.4	153.9	155.6
57.5°	146.3	144.6	142.4	141.5	140.1	139.7	138.8	138.4	138.8	140.1	141.5
60°	132.2	131.3	130.0	128.7	127.8	126.4	125.6	125.6	125.1	125.1	125.6
62.5°	118.5	118.0	116.3	115.8	114.9	114.1	112.7	111.9	111.9	112.7	113.2
65°	105.2	104.8	103.5	103.0	100.8	99.9	99.5	99.0	98.1	98.1	98.1
67.5°	92.8	91.5	91.5	89.3	87.5	86.7	85.8	85.3	85.3	85.3	85.8
70°	79.1	79.1	77.8	76.5	74.7	75.2	73.8	72.5	72.5	71.6	72.1
72.5°	65.9	65.4	64.1	63.7	62.3	61.0	60.1	61.0	59.7	59.2	59.7
75°	53.1	52.6	51.7	50.8	51.3	50.0	48.6	48.2	48.2	47.3	47.3
77.5°	40.7	41.6	39.8	39.3	38.5	37.6	37.1	36.7	36.7	36.7	37.6
80°	28.3	28.7	28.7	27.9	28.3	27.0	27.0	27.0	25.6	26.1	26.5
82.5°	18.1	18.1	17.7	18.1	17.7	17.7	17.2	17.2	16.8	16.8	17.2
85°	10.2	9.7	9.3	10.2	9.7	9.7	9.3	9.3	9.3	9.3	9.3
87.5°	2.2	2.7	2.7	2.7	2.7	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°	11.4	11.3	11.2	11.1	11.0	10.9	10.9	10.8	10.7	10.7	10.4
95°	22.8	22.8	22.8	22.8	22.8	22.6	22.4	22.3	22.1	22.0	21.6
97.5°	35.6	35.6	35.6	35.6	35.6	35.3	34.9	34.6	34.3	34.1	33.7
100°	49.1	49.1	49.1	49.1	49.1	48.9	48.6	48.4	48.1	48.0	47.7
102.5°	64.0	63.9	63.8	63.7	63.6	63.3	63.0	62.7	62.4	62.2	62.0
105°	78.8	78.7	78.5	78.4	78.2	78.0	77.9	77.7	77.6	77.5	77.4
107.5°	94.6	94.5	94.4	94.3	94.2	94.2	94.2	94.2	94.2	94.2	94.0
110°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.4

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	126.3	126.6	126.8	127.1	127.3	127.4	127.4	127.5	127.6	127.6	127.4
115°	143.3	143.4	143.5	143.5	143.6	143.8	143.9	144.1	144.2	144.3	144.1
117.5°	159.0	159.3	159.5	159.8	160.0	160.4	160.8	161.2	161.6	161.8	161.5
120°	175.6	175.6	175.6	175.6	175.6	176.2	176.9	177.5	178.2	178.5	178.2
122.5°	191.7	192.0	192.2	192.5	192.7	193.1	193.5	193.9	194.3	194.5	194.1
125°	208.1	208.3	208.6	208.8	209.0	209.2	209.5	209.7	210.0	210.1	209.7
127.5°	223.8	224.1	224.4	224.7	225.0	225.3	225.7	226.0	226.3	226.5	226.1
130°	240.4	240.5	240.7	240.8	241.0	241.2	241.3	241.5	241.6	241.7	241.2
132.5°	255.8	256.2	256.6	257.0	257.4	257.3	257.2	257.1	257.0	257.0	256.6
135°	272.0	272.1	272.2	272.2	272.3	272.1	272.0	271.8	271.7	271.6	271.2
137.5°	286.9	287.0	287.1	287.1	287.2	287.0	286.9	286.7	286.6	286.5	286.1
140°	302.2	302.2	302.2	302.2	302.2	301.8	301.4	301.0	300.6	300.4	300.0
142.5°	316.0	315.9	315.8	315.8	315.7	315.5	315.2	315.0	314.7	314.6	314.2
145°	329.9	329.8	329.7	329.7	329.6	329.1	328.6	328.1	327.6	327.4	327.1
147.5°	342.3	342.1	342.0	341.8	341.6	341.3	341.0	340.7	340.4	340.2	339.8
150°	354.0	353.7	353.5	353.2	353.0	352.7	352.4	352.1	351.8	351.6	351.4
152.5°	365.6	365.3	365.0	364.7	364.4	364.0	363.6	363.2	362.8	362.6	362.4
155°	375.2	374.8	374.4	374.0	373.6	373.4	373.2	372.9	372.7	372.6	372.5
157.5°	384.7	384.2	383.6	383.1	382.5	382.3	382.2	382.0	381.9	381.8	381.7
160°	392.6	392.1	391.6	391.2	390.7	390.6	390.5	390.4	390.3	390.3	390.2
162.5°	400.0	399.5	398.9	398.4	397.8	397.7	397.7	397.6	397.5	397.5	397.5
165°	406.0	405.5	405.0	404.4	403.9	403.9	403.9	403.9	403.9	403.9	403.9
167.5°	411.4	410.9	410.3	409.8	409.2	409.2	409.2	409.2	409.2	409.2	409.3
170°	415.6	415.1	414.6	414.0	413.5	413.6	413.6	413.7	413.8	413.8	413.9
172.5°	418.8	418.3	417.8	417.2	416.7	416.8	416.8	416.9	417.0	417.0	417.1
175°	421.0	420.5	419.9	419.4	418.8	419.0	419.1	419.3	419.4	419.5	419.6
177.5°	422.1	421.6	421.1	420.7	420.2	420.4	420.5	420.7	420.8	420.9	421.0
180°	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3	421.3

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	575.2	575.2	575.2	575.2
2.5°	564.6	564.6	571.2	578.3
5°	552.2	555.3	565.9	575.6
7.5°	540.2	545.5	558.8	571.2
10°	525.7	532.7	549.1	563.7
12.5°	511.5	518.1	537.1	553.5
15°	491.6	500.0	520.3	540.7
17.5°	471.7	480.1	504.9	528.7
20°	448.3	459.3	487.2	519.0
22.5°	426.6	440.3	471.3	496.9
25°	402.8	424.0	452.7	485.9
27.5°	381.5	402.8	431.9	465.5
30°	357.7	379.3	409.4	440.3
32.5°	334.7	354.6	383.7	421.8
35°	310.8	329.8	358.1	396.6
37.5°	289.1	307.7	338.6	374.0
40°	267.9	287.4	313.9	349.3
42.5°	248.0	265.3	289.1	324.5
45°	229.9	242.3	264.4	297.5
47.5°	210.9	221.9	242.3	275.4
50°	193.2	202.5	220.2	251.1
52.5°	176.0	183.9	200.3	225.0
55°	160.5	168.0	179.9	204.2
57.5°	144.6	150.3	161.8	181.3
60°	129.1	134.4	143.7	159.6
62.5°	113.6	118.0	126.9	139.7
65°	99.9	103.5	110.1	121.1
67.5°	86.7	88.9	94.2	103.0
70°	73.8	75.6	80.0	87.1
72.5°	60.1	61.9	66.8	71.6
75°	48.6	49.1	52.6	56.6
77.5°	38.0	37.6	40.2	43.3
80°	26.1	27.4	29.6	30.9
82.5°	17.7	18.1	19.0	19.9
85°	9.7	10.2	10.2	11.5
87.5°	4.0	4.4	4.4	4.9
90°	3.2	2.3	1.3	0.4
92.5°	9.7	9.1	8.4	7.8
95°	20.8	20.1	19.3	18.5
97.5°	33.0	32.3	31.6	30.9
100°	47.0	46.4	45.7	45.1
102.5°	61.5	61.0	60.6	60.1
105°	77.1	76.9	76.6	76.4
107.5°	93.7	93.4	93.1	92.8
110°	109.9	109.4	108.9	108.4



TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	126.9	126.4	126.0	125.5
115°	143.6	143.1	142.7	142.2
117.5°	160.8	160.2	159.5	158.9
120°	177.5	176.9	176.2	175.6
122.5°	193.3	192.5	191.7	190.9
125°	209.0	208.3	207.6	206.9
127.5°	225.2	224.3	223.4	222.5
130°	240.2	239.1	238.1	237.1
132.5°	255.8	255.1	254.3	253.5
135°	270.3	269.4	268.6	267.7
137.5°	285.4	284.7	284.0	283.3
140°	299.3	298.6	297.9	297.2
142.5°	313.5	312.8	312.1	311.4
145°	326.6	326.0	325.5	324.9
147.5°	339.1	338.4	337.7	337.0
150°	350.9	350.4	350.0	349.5
152.5°	361.9	361.4	361.0	360.5
155°	372.2	372.0	371.7	371.5
157.5°	381.6	381.4	381.3	381.1
160°	390.1	389.9	389.8	389.6
162.5°	397.5	397.5	397.5	397.5
165°	404.0	404.1	404.1	404.2
167.5°	409.6	409.8	410.1	410.3
170°	414.2	414.4	414.7	414.9
172.5°	417.4	417.6	417.9	418.1
175°	419.9	420.1	420.4	420.6
177.5°	421.3	421.5	421.8	422.0
180°	421.3	421.3	421.3	421.3

TEST NUMBER: P998163

CATALOG NUMBER: SA2XXDIP-B290D330UB30-4F0-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	13.69	14.54	14.64	15.49	16.74	11.18	12.03	12.13	12.99	14.23
	3H	14.50	15.26	15.46	16.23	17.50	12.53	13.28	13.49	14.25	15.52
	4H	14.67	15.38	15.64	16.36	17.63	12.99	13.70	13.96	14.68	15.95
	6H	14.71	15.37	15.70	16.35	17.64	13.30	13.95	14.28	14.93	16.22
	8H	14.69	15.32	15.68	16.31	17.60	13.38	14.00	14.37	15.00	16.29
	12H	14.66	15.25	15.65	16.24	17.55	13.42	14.01	14.42	15.00	16.31
4H	2H	13.73	14.44	14.71	15.42	16.70	11.63	12.34	12.61	13.31	14.59
	3H	14.71	15.30	15.70	16.31	17.60	13.09	13.68	14.08	14.68	15.98
	4H	14.99	15.53	15.98	16.52	17.84	13.62	14.16	14.62	15.16	16.48
	6H	15.12	15.58	16.12	16.60	17.91	14.00	14.47	15.01	15.48	16.80
	8H	15.11	15.55	16.12	16.56	17.89	14.11	14.55	15.12	15.56	16.89
	12H	15.08	15.47	16.10	16.50	17.83	14.17	14.56	15.19	15.59	16.92
8H	4H	14.99	15.43	16.00	16.44	17.77	13.76	14.20	14.77	15.21	16.54
	6H	15.17	15.53	16.21	16.58	17.91	14.20	14.56	15.23	15.61	16.94
	8H	15.20	15.52	16.24	16.56	17.90	14.35	14.66	15.39	15.70	17.05
	12H	15.19	15.46	16.23	16.50	17.89	14.44	14.72	15.48	15.75	17.14
12H	4H	14.95	15.34	15.98	16.37	17.70	13.74	14.13	14.76	15.16	16.49
	6H	15.15	15.47	16.19	16.51	17.85	14.20	14.51	15.24	15.55	16.90
	8H	15.18	15.46	16.23	16.49	17.88	14.35	14.63	15.40	15.67	17.05