

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: P998311

Luminaire Tested: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998311
REPORT IS A COMBINATION OF REPORTS P984051 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

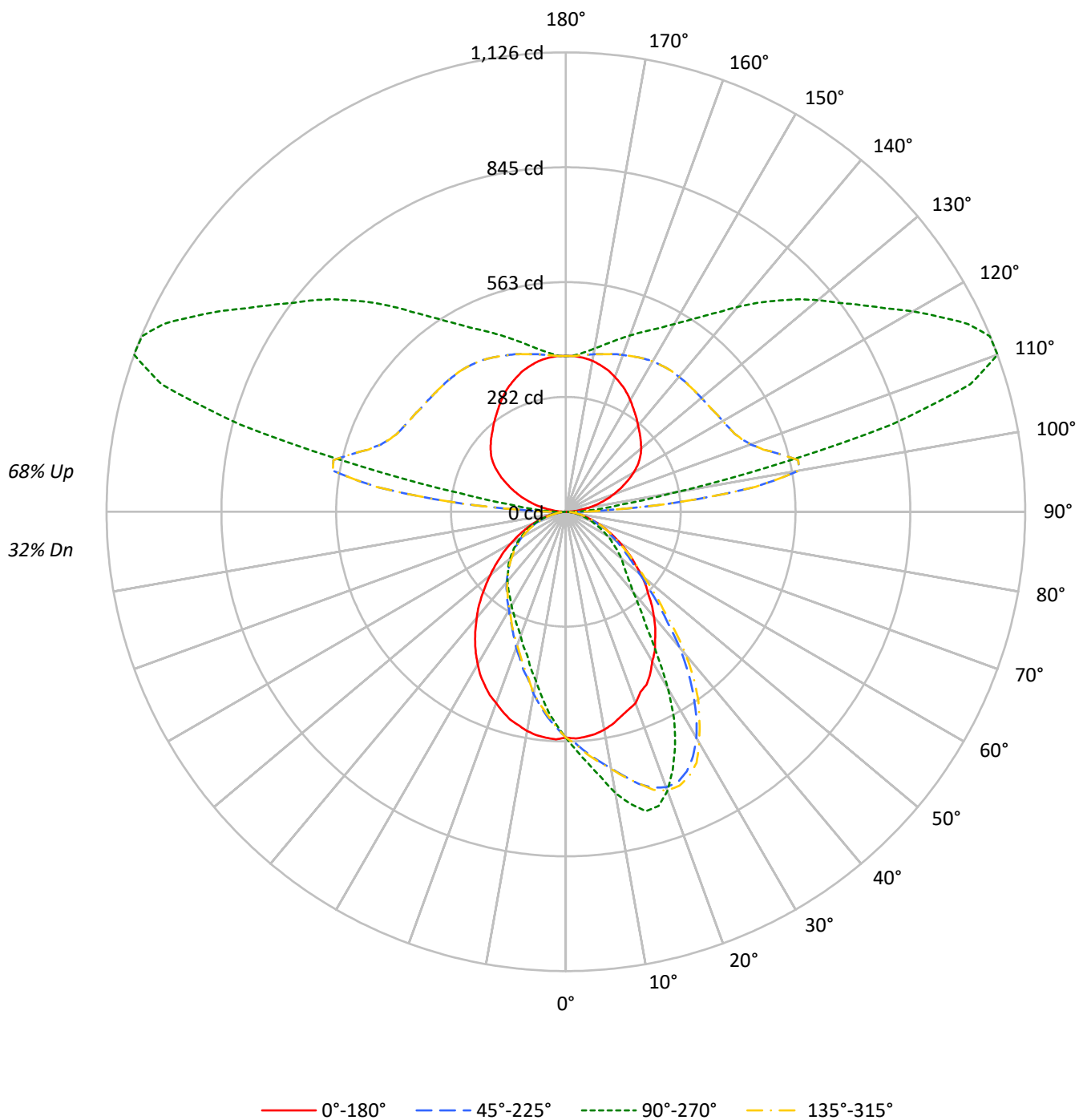
Lumens per Lamp: N/A
Luminaire Lumens: 3882.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	34	34
2	86	79	73	68	77	71	66	62	57	53	50	43	41	39	31	30	29
3	78	69	63	57	70	63	57	52	50	46	43	39	36	34	28	26	25
4	72	62	54	48	64	56	49	44	45	40	37	35	31	29	25	23	22
5	66	55	47	41	59	50	43	38	40	35	32	31	28	25	23	21	19
6	61	49	42	36	54	45	38	33	36	31	28	28	25	22	21	19	17
7	56	44	37	32	50	40	34	29	33	28	24	26	22	20	19	17	15
8	52	40	33	28	47	37	30	26	30	25	22	23	20	18	17	15	14
9	48	37	30	25	44	34	27	23	27	23	19	22	18	16	16	14	12
10	45	34	27	22	41	31	25	21	25	21	17	20	17	14	15	13	11

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	1.4
10°-20°	153.4	4.0
20°-30°	222.7	5.7
30°-40°	234.7	6.0
40°-50°	207.7	5.4
50°-60°	165.9	4.3
60°-70°	112.7	2.9
70°-80°	57.6	1.5
80°-90°	16.1	0.4
90°-100°	148.8	3.8
100°-110°	524.1	13.5
110°-120°	550.4	14.2
120°-130°	452.8	11.7
130°-140°	363.8	9.4
140°-150°	274.8	7.1
150°-160°	193.2	5.0
160°-170°	113.7	2.9
170°-180°	37.0	1.0
0°-30°	428.8	11.0
0°-40°	663.5	17.1
0°-60°	1037.1	26.7
0°-90°	1223.5	31.5
90°-120°	1223.3	31.5
90°-150°	2314.7	59.6
90°-180°	2659.0	68.5
0°-180°	3882.0	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°	1	24	1	24	1	2
95°	26	84	26	84	26	27
105°	90	827	90	827	90	95
115°	158	1089	158	1089	158	157
125°	220	883	220	883	220	196
135°	258	732	258	732	258	200
145°	295	584	295	584	295	185
155°	336	491	336	491	336	154
165°	366	431	366	431	366	103
175°	381	388	381	388	381	36
180°	382	382	382	382	382	

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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°	0.7	2.9	5.9	7.3	8.8	9.9	11.0	14.7	19.8	24.2	25.0
92.5°	11.0	15.4	21.3	25.0	30.8	34.8	38.9	58.7	86.6	111.6	113.1
95°	25.7	28.6	36.0	42.6	54.3	63.1	71.9	105.7	169.6	254.7	287.8
97.5°	38.2	42.6	50.7	60.2	73.4	83.3	93.2	136.6	225.4	362.7	469.1
100°	56.5	58.7	65.3	77.1	91.8	102.0	112.3	151.2	240.8	399.4	580.0
102.5°	73.4	74.9	81.5	93.2	108.7	119.0	129.2	164.4	241.5	385.4	583.6
105°	89.6	92.5	97.6	108.7	124.8	135.1	145.4	179.9	245.2	366.3	544.0
107.5°	107.2	109.4	114.5	124.8	141.0	151.2	161.5	195.3	253.3	356.1	507.3
110°	124.8	127.7	132.1	141.7	157.1	167.8	178.4	210.7	263.6	353.1	482.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	141.0	143.9	149.0	157.8	172.5	183.5	194.5	225.4	274.6	353.9	466.2
115°	157.8	161.5	165.9	174.7	189.4	199.3	209.2	240.8	285.6	356.8	455.2
117.5°	175.5	178.4	182.8	190.9	204.8	215.1	225.4	254.7	297.3	361.2	449.3
120°	191.6	194.5	199.0	205.6	220.2	230.5	240.8	269.4	309.1	365.6	444.2
122.5°	207.0	209.2	213.6	221.0	235.7	246.3	256.9	283.4	319.4	370.7	441.2
125°	220.2	222.4	226.9	235.7	250.3	260.6	270.9	297.3	330.4	375.9	437.5
127.5°	231.3	234.2	240.1	249.6	263.6	274.2	284.8	310.5	340.6	381.0	435.3
130°	240.8	243.7	251.1	261.4	276.0	286.3	296.6	322.3	350.2	386.9	433.9
132.5°	249.6	253.3	261.4	272.4	287.8	298.0	308.3	332.6	359.7	392.8	433.1
135°	258.4	261.4	270.2	281.2	298.1	308.4	318.6	342.1	367.8	397.2	432.4
137.5°	266.5	270.2	279.0	290.7	307.6	317.2	326.7	350.2	374.4	401.6	432.4
140°	276.0	279.0	287.8	299.5	315.7	325.2	334.8	356.8	379.6	404.5	431.7
142.5°	285.6	287.8	295.9	307.6	323.0	331.8	340.6	361.9	384.0	406.7	431.7
145°	295.1	298.1	305.4	316.4	331.1	339.2	347.2	367.1	387.6	408.2	430.2
147.5°	305.4	307.6	314.9	325.2	337.7	345.0	352.4	371.5	389.8	408.9	428.0
150°	315.7	317.9	323.8	333.3	344.3	350.9	357.5	374.4	391.3	408.2	425.8
152.5°	326.0	326.7	332.6	340.6	350.9	356.8	362.7	377.3	392.0	406.7	422.1
155°	335.5	336.2	340.6	348.7	356.8	362.3	367.8	380.3	392.8	405.2	417.7
157.5°	343.6	344.3	348.0	355.3	361.9	366.7	371.5	382.5	392.8	402.3	413.3
160°	351.7	352.4	355.3	361.2	367.1	371.1	375.1	384.0	392.8	400.1	408.9
162.5°	359.7	359.0	361.9	366.3	371.5	374.4	377.3	384.7	392.0	397.9	405.2
165°	365.6	364.9	366.3	370.7	374.4	376.6	378.8	385.4	390.6	395.0	400.1
167.5°	370.7	370.0	371.5	374.4	377.3	378.8	380.3	385.4	389.8	392.0	395.7
170°	375.9	374.4	375.1	377.3	378.8	379.9	381.0	384.7	388.4	389.8	392.0
172.5°	378.8	378.1	377.3	379.6	380.3	381.0	381.8	384.0	386.2	386.9	387.6
175°	381.0	380.3	379.6	381.0	381.0	381.4	381.8	383.2	384.7	384.0	384.7
177.5°	382.5	381.0	380.3	381.8	381.8	381.8	381.8	382.5	384.0	382.5	381.8
180°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8

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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°	24.2	23.5	22.0	23.5	23.8	24.2	24.2	24.2	24.2	24.2	24.2
92.5°	94.7	74.1	63.1	55.1	52.2	49.2	48.5	45.5	46.3	44.8	46.3
95°	251.8	192.3	147.6	116.7	108.6	100.6	91.0	85.2	83.0	83.7	83.0
97.5°	472.8	393.5	314.2	240.1	218.0	196.0	167.4	152.7	144.6	140.2	144.6
100°	685.7	670.3	579.2	478.7	434.2	389.8	328.9	297.3	276.0	262.8	276.0
102.5°	765.0	851.6	848.7	781.9	734.2	686.4	618.9	559.4	531.5	512.4	531.5
105°	739.3	892.0	974.9	984.5	972.4	960.3	914.7	869.2	837.7	827.4	837.7
107.5°	685.0	848.7	972.0	1044.0	1058.6	1073.3	1072.6	1066.0	1056.4	1039.5	1056.4
110°	634.3	789.2	920.6	1014.6	1044.7	1074.8	1106.4	1120.3	1126.9	1126.2	1126.9

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	599.1	734.9	859.7	961.7	997.3	1032.9	1079.9	1105.6	1119.6	1124.7	1119.6
115°	571.2	692.3	805.4	901.5	939.3	977.1	1029.3	1063.0	1082.1	1088.7	1082.1
117.5°	552.1	657.1	758.4	847.9	883.9	919.9	973.5	1009.4	1029.3	1034.4	1029.3
120°	537.4	632.1	723.1	800.9	834.4	867.8	919.1	953.7	974.9	982.3	974.9
122.5°	524.9	612.3	693.8	766.4	795.8	825.2	870.0	903.7	922.1	928.0	922.1
125°	513.2	593.2	668.8	733.4	761.0	788.5	831.0	858.9	877.3	883.2	877.3
127.5°	502.2	574.1	643.8	705.5	731.2	756.9	794.3	820.8	836.9	841.3	836.9
130°	491.1	555.7	618.9	676.9	701.1	725.3	761.3	786.3	800.9	806.8	800.9
132.5°	482.3	538.1	595.4	647.5	669.9	692.3	727.5	752.5	765.7	770.8	765.7
135°	474.3	522.0	570.4	618.9	639.4	660.0	691.6	715.8	729.0	731.9	729.0
137.5°	468.4	508.8	550.6	590.3	608.6	627.0	657.1	678.3	690.1	694.5	690.1
140°	463.2	496.3	531.5	565.3	581.4	597.6	621.1	640.2	651.2	655.6	651.2
142.5°	458.1	486.0	514.6	542.5	555.4	568.2	590.3	607.1	616.7	616.7	616.7
145°	453.7	476.5	500.7	523.4	534.0	544.7	562.4	574.8	582.2	584.4	582.2
147.5°	449.3	469.1	488.9	507.3	515.4	523.4	538.9	549.1	554.3	555.7	554.3
150°	443.4	461.0	477.2	492.6	499.2	505.8	516.8	525.6	530.1	530.8	530.1
152.5°	438.3	453.0	467.6	480.1	485.6	491.1	499.2	506.6	509.5	509.5	509.5
155°	431.7	445.6	457.4	468.4	472.4	476.5	484.5	489.7	492.6	491.1	492.6
157.5°	425.8	436.8	447.1	456.6	459.9	463.2	469.1	473.5	475.0	475.0	475.0
160°	419.2	428.7	436.8	444.9	447.4	450.0	455.2	458.8	459.6	459.6	459.6
162.5°	413.3	420.7	427.3	433.9	435.7	437.5	442.7	444.9	445.6	444.9	445.6
165°	406.7	412.6	417.7	422.9	424.4	425.8	428.7	431.7	431.7	430.9	431.7
167.5°	400.1	404.5	408.9	412.6	414.0	415.5	417.0	418.5	418.5	417.7	418.5
170°	395.0	398.6	400.8	403.8	404.5	405.2	406.0	408.2	407.4	406.0	407.4
172.5°	389.8	392.0	393.5	395.7	396.0	396.4	397.2	397.9	397.2	396.4	397.2
175°	385.4	387.6	388.4	389.1	389.5	389.8	389.8	390.6	389.8	388.4	389.8
177.5°	382.5	384.0	384.0	384.7	384.7	384.7	384.7	384.7	384.0	382.5	384.0
180°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

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°	24.2	24.2	24.2	23.8	23.5	22.0	23.5	24.2	25.0	24.2	19.8
92.5°	45.5	48.5	49.2	52.2	55.1	63.1	74.1	94.7	113.1	111.6	86.6
95°	85.2	91.0	100.6	108.6	116.7	147.6	192.3	251.8	287.8	254.7	169.6
97.5°	152.7	167.4	196.0	218.0	240.1	314.2	393.5	472.8	469.1	362.7	225.4
100°	297.3	328.9	389.8	434.2	478.7	579.2	670.3	685.7	580.0	399.4	240.8
102.5°	559.4	618.9	686.4	734.2	781.9	848.7	851.6	765.0	583.6	385.4	241.5
105°	869.2	914.7	960.3	972.4	984.5	974.9	892.0	739.3	544.0	366.3	245.2
107.5°	1066.0	1072.6	1073.3	1058.6	1044.0	972.0	848.7	685.0	507.3	356.1	253.3
110°	1120.3	1106.4	1074.8	1044.7	1014.6	920.6	789.2	634.3	482.3	353.1	263.6

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1105.6	1079.9	1032.9	997.3	961.7	859.7	734.9	599.1	466.2	353.9	274.6
115°	1063.0	1029.3	977.1	939.3	901.5	805.4	692.3	571.2	455.2	356.8	285.6
117.5°	1009.4	973.5	919.9	883.9	847.9	758.4	657.1	552.1	449.3	361.2	297.3
120°	953.7	919.1	867.8	834.4	800.9	723.1	632.1	537.4	444.2	365.6	309.1
122.5°	903.7	870.0	825.2	795.8	766.4	693.8	612.3	524.9	441.2	370.7	319.4
125°	858.9	831.0	788.5	761.0	733.4	668.8	593.2	513.2	437.5	375.9	330.4
127.5°	820.8	794.3	756.9	731.2	705.5	643.8	574.1	502.2	435.3	381.0	340.6
130°	786.3	761.3	725.3	701.1	676.9	618.9	555.7	491.1	433.9	386.9	350.2
132.5°	752.5	727.5	692.3	669.9	647.5	595.4	538.1	482.3	433.1	392.8	359.7
135°	715.8	691.6	660.0	639.4	618.9	570.4	522.0	474.3	432.4	397.2	367.8
137.5°	678.3	657.1	627.0	608.6	590.3	550.6	508.8	468.4	432.4	401.6	374.4
140°	640.2	621.1	597.6	581.4	565.3	531.5	496.3	463.2	431.7	404.5	379.6
142.5°	607.1	590.3	568.2	555.4	542.5	514.6	486.0	458.1	431.7	406.7	384.0
145°	574.8	562.4	544.7	534.0	523.4	500.7	476.5	453.7	430.2	408.2	387.6
147.5°	549.1	538.9	523.4	515.4	507.3	488.9	469.1	449.3	428.0	408.9	389.8
150°	525.6	516.8	505.8	499.2	492.6	477.2	461.0	443.4	425.8	408.2	391.3
152.5°	506.6	499.2	491.1	485.6	480.1	467.6	453.0	438.3	422.1	406.7	392.0
155°	489.7	484.5	476.5	472.4	468.4	457.4	445.6	431.7	417.7	405.2	392.8
157.5°	473.5	469.1	463.2	459.9	456.6	447.1	436.8	425.8	413.3	402.3	392.8
160°	458.8	455.2	450.0	447.4	444.9	436.8	428.7	419.2	408.9	400.1	392.8
162.5°	444.9	442.7	437.5	435.7	433.9	427.3	420.7	413.3	405.2	397.9	392.0
165°	431.7	428.7	425.8	424.4	422.9	417.7	412.6	406.7	400.1	395.0	390.6
167.5°	418.5	417.0	415.5	414.0	412.6	408.9	404.5	400.1	395.7	392.0	389.8
170°	408.2	406.0	405.2	404.5	403.8	400.8	398.6	395.0	392.0	389.8	388.4
172.5°	397.9	397.2	396.4	396.0	395.7	393.5	392.0	389.8	387.6	386.9	386.2
175°	390.6	389.8	389.8	389.5	389.1	388.4	387.6	385.4	384.7	384.0	384.7
177.5°	384.7	384.7	384.7	384.7	384.7	384.0	384.0	382.5	381.8	382.5	384.0
180°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

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°	14.7	11.0	9.9	8.8	7.3	5.9	2.9	0.7	2.9	5.9	7.3
92.5°	58.7	38.9	34.8	30.8	25.0	21.3	15.4	11.0	15.4	21.3	25.0
95°	105.7	71.9	63.1	54.3	42.6	36.0	28.6	25.7	28.6	36.0	42.6
97.5°	136.6	93.2	83.3	73.4	60.2	50.7	42.6	38.2	42.6	50.7	60.2
100°	151.2	112.3	102.0	91.8	77.1	65.3	58.7	56.5	58.7	65.3	77.1
102.5°	164.4	129.2	119.0	108.7	93.2	81.5	74.9	73.4	74.9	81.5	93.2
105°	179.9	145.4	135.1	124.8	108.7	97.6	92.5	89.6	92.5	97.6	108.7
107.5°	195.3	161.5	151.2	141.0	124.8	114.5	109.4	107.2	109.4	114.5	124.8
110°	210.7	178.4	167.8	157.1	141.7	132.1	127.7	124.8	127.7	132.1	141.7

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	225.4	194.5	183.5	172.5	157.8	149.0	143.9	141.0	143.9	149.0	157.8
115°	240.8	209.2	199.3	189.4	174.7	165.9	161.5	157.8	161.5	165.9	174.7
117.5°	254.7	225.4	215.1	204.8	190.9	182.8	178.4	175.5	178.4	182.8	190.9
120°	269.4	240.8	230.5	220.2	205.6	199.0	194.5	191.6	194.5	199.0	205.6
122.5°	283.4	256.9	246.3	235.7	221.0	213.6	209.2	207.0	209.2	213.6	221.0
125°	297.3	270.9	260.6	250.3	235.7	226.9	222.4	220.2	222.4	226.9	235.7
127.5°	310.5	284.8	274.2	263.6	249.6	240.1	234.2	231.3	234.2	240.1	249.6
130°	322.3	296.6	286.3	276.0	261.4	251.1	243.7	240.8	243.7	251.1	261.4
132.5°	332.6	308.3	298.0	287.8	272.4	261.4	253.3	249.6	253.3	261.4	272.4
135°	342.1	318.6	308.4	298.1	281.2	270.2	261.4	258.4	261.4	270.2	281.2
137.5°	350.2	326.7	317.2	307.6	290.7	279.0	270.2	266.5	270.2	279.0	290.7
140°	356.8	334.8	325.2	315.7	299.5	287.8	279.0	276.0	279.0	287.8	299.5
142.5°	361.9	340.6	331.8	323.0	307.6	295.9	287.8	285.6	287.8	295.9	307.6
145°	367.1	347.2	339.2	331.1	316.4	305.4	298.1	295.1	298.1	305.4	316.4
147.5°	371.5	352.4	345.0	337.7	325.2	314.9	307.6	305.4	307.6	314.9	325.2
150°	374.4	357.5	350.9	344.3	333.3	323.8	317.9	315.7	317.9	323.8	333.3
152.5°	377.3	362.7	356.8	350.9	340.6	332.6	326.7	326.0	326.7	332.6	340.6
155°	380.3	367.8	362.3	356.8	348.7	340.6	336.2	335.5	336.2	340.6	348.7
157.5°	382.5	371.5	366.7	361.9	355.3	348.0	344.3	343.6	344.3	348.0	355.3
160°	384.0	375.1	371.1	367.1	361.2	355.3	352.4	351.7	352.4	355.3	361.2
162.5°	384.7	377.3	374.4	371.5	366.3	361.9	359.0	359.7	359.0	361.9	366.3
165°	385.4	378.8	376.6	374.4	370.7	366.3	364.9	365.6	364.9	366.3	370.7
167.5°	385.4	380.3	378.8	377.3	374.4	371.5	370.0	370.7	370.0	371.5	374.4
170°	384.7	381.0	379.9	378.8	377.3	375.1	374.4	375.9	374.4	375.1	377.3
172.5°	384.0	381.8	381.0	380.3	379.6	377.3	378.1	378.8	378.1	377.3	379.6
175°	383.2	381.8	381.4	381.0	381.0	379.6	380.3	381.0	380.3	379.6	381.0
177.5°	382.5	381.8	381.8	381.8	381.8	380.3	381.0	382.5	381.0	380.3	381.8
180°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

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°	8.8	9.9	11.0	14.7	19.8	24.2	25.0	24.2	23.5	22.0	23.5
92.5°	30.8	34.8	38.9	58.7	86.6	111.6	113.1	94.7	74.1	63.1	55.1
95°	54.3	63.1	71.9	105.7	169.6	254.7	287.8	251.8	192.3	147.6	116.7
97.5°	73.4	83.3	93.2	136.6	225.4	362.7	469.1	472.8	393.5	314.2	240.1
100°	91.8	102.0	112.3	151.2	240.8	399.4	580.0	685.7	670.3	579.2	478.7
102.5°	108.7	119.0	129.2	164.4	241.5	385.4	583.6	765.0	851.6	848.7	781.9
105°	124.8	135.1	145.4	179.9	245.2	366.3	544.0	739.3	892.0	974.9	984.5
107.5°	141.0	151.2	161.5	195.3	253.3	356.1	507.3	685.0	848.7	972.0	1044.0
110°	157.1	167.8	178.4	210.7	263.6	353.1	482.3	634.3	789.2	920.6	1014.6

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	172.5	183.5	194.5	225.4	274.6	353.9	466.2	599.1	734.9	859.7	961.7
115°	189.4	199.3	209.2	240.8	285.6	356.8	455.2	571.2	692.3	805.4	901.5
117.5°	204.8	215.1	225.4	254.7	297.3	361.2	449.3	552.1	657.1	758.4	847.9
120°	220.2	230.5	240.8	269.4	309.1	365.6	444.2	537.4	632.1	723.1	800.9
122.5°	235.7	246.3	256.9	283.4	319.4	370.7	441.2	524.9	612.3	693.8	766.4
125°	250.3	260.6	270.9	297.3	330.4	375.9	437.5	513.2	593.2	668.8	733.4
127.5°	263.6	274.2	284.8	310.5	340.6	381.0	435.3	502.2	574.1	643.8	705.5
130°	276.0	286.3	296.6	322.3	350.2	386.9	433.9	491.1	555.7	618.9	676.9
132.5°	287.8	298.0	308.3	332.6	359.7	392.8	433.1	482.3	538.1	595.4	647.5
135°	298.1	308.4	318.6	342.1	367.8	397.2	432.4	474.3	522.0	570.4	618.9
137.5°	307.6	317.2	326.7	350.2	374.4	401.6	432.4	468.4	508.8	550.6	590.3
140°	315.7	325.2	334.8	356.8	379.6	404.5	431.7	463.2	496.3	531.5	565.3
142.5°	323.0	331.8	340.6	361.9	384.0	406.7	431.7	458.1	486.0	514.6	542.5
145°	331.1	339.2	347.2	367.1	387.6	408.2	430.2	453.7	476.5	500.7	523.4
147.5°	337.7	345.0	352.4	371.5	389.8	408.9	428.0	449.3	469.1	488.9	507.3
150°	344.3	350.9	357.5	374.4	391.3	408.2	425.8	443.4	461.0	477.2	492.6
152.5°	350.9	356.8	362.7	377.3	392.0	406.7	422.1	438.3	453.0	467.6	480.1
155°	356.8	362.3	367.8	380.3	392.8	405.2	417.7	431.7	445.6	457.4	468.4
157.5°	361.9	366.7	371.5	382.5	392.8	402.3	413.3	425.8	436.8	447.1	456.6
160°	367.1	371.1	375.1	384.0	392.8	400.1	408.9	419.2	428.7	436.8	444.9
162.5°	371.5	374.4	377.3	384.7	392.0	397.9	405.2	413.3	420.7	427.3	433.9
165°	374.4	376.6	378.8	385.4	390.6	395.0	400.1	406.7	412.6	417.7	422.9
167.5°	377.3	378.8	380.3	385.4	389.8	392.0	395.7	400.1	404.5	408.9	412.6
170°	378.8	379.9	381.0	384.7	388.4	389.8	392.0	395.0	398.6	400.8	403.8
172.5°	380.3	381.0	381.8	384.0	386.2	386.9	387.6	389.8	392.0	393.5	395.7
175°	381.0	381.4	381.8	383.2	384.7	384.0	384.7	385.4	387.6	388.4	389.1
177.5°	381.8	381.8	381.8	382.5	384.0	382.5	381.8	382.5	384.0	384.0	384.7
180°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

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°	23.8	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	23.8
92.5°	52.2	49.2	48.5	45.5	46.3	44.8	46.3	45.5	48.5	49.2	52.2
95°	108.6	100.6	91.0	85.2	83.0	83.7	83.0	85.2	91.0	100.6	108.6
97.5°	218.0	196.0	167.4	152.7	144.6	140.2	144.6	152.7	167.4	196.0	218.0
100°	434.2	389.8	328.9	297.3	276.0	262.8	276.0	297.3	328.9	389.8	434.2
102.5°	734.2	686.4	618.9	559.4	531.5	512.4	531.5	559.4	618.9	686.4	734.2
105°	972.4	960.3	914.7	869.2	837.7	827.4	837.7	869.2	914.7	960.3	972.4
107.5°	1058.6	1073.3	1072.6	1066.0	1056.4	1039.5	1056.4	1066.0	1072.6	1073.3	1058.6
110°	1044.7	1074.8	1106.4	1120.3	1126.9	1126.2	1126.9	1120.3	1106.4	1074.8	1044.7

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	997.3	1032.9	1079.9	1105.6	1119.6	1124.7	1119.6	1105.6	1079.9	1032.9	997.3
115°	939.3	977.1	1029.3	1063.0	1082.1	1088.7	1082.1	1063.0	1029.3	977.1	939.3
117.5°	883.9	919.9	973.5	1009.4	1029.3	1034.4	1029.3	1009.4	973.5	919.9	883.9
120°	834.4	867.8	919.1	953.7	974.9	982.3	974.9	953.7	919.1	867.8	834.4
122.5°	795.8	825.2	870.0	903.7	922.1	928.0	922.1	903.7	870.0	825.2	795.8
125°	761.0	788.5	831.0	858.9	877.3	883.2	877.3	858.9	831.0	788.5	761.0
127.5°	731.2	756.9	794.3	820.8	836.9	841.3	836.9	820.8	794.3	756.9	731.2
130°	701.1	725.3	761.3	786.3	800.9	806.8	800.9	786.3	761.3	725.3	701.1
132.5°	669.9	692.3	727.5	752.5	765.7	770.8	765.7	752.5	727.5	692.3	669.9
135°	639.4	660.0	691.6	715.8	729.0	731.9	729.0	715.8	691.6	660.0	639.4
137.5°	608.6	627.0	657.1	678.3	690.1	694.5	690.1	678.3	657.1	627.0	608.6
140°	581.4	597.6	621.1	640.2	651.2	655.6	651.2	640.2	621.1	597.6	581.4
142.5°	555.4	568.2	590.3	607.1	616.7	616.7	616.7	607.1	590.3	568.2	555.4
145°	534.0	544.7	562.4	574.8	582.2	584.4	582.2	574.8	562.4	544.7	534.0
147.5°	515.4	523.4	538.9	549.1	554.3	555.7	554.3	549.1	538.9	523.4	515.4
150°	499.2	505.8	516.8	525.6	530.1	530.8	530.1	525.6	516.8	505.8	499.2
152.5°	485.6	491.1	499.2	506.6	509.5	509.5	509.5	506.6	499.2	491.1	485.6
155°	472.4	476.5	484.5	489.7	492.6	491.1	492.6	489.7	484.5	476.5	472.4
157.5°	459.9	463.2	469.1	473.5	475.0	475.0	475.0	473.5	469.1	463.2	459.9
160°	447.4	450.0	455.2	458.8	459.6	459.6	459.6	458.8	455.2	450.0	447.4
162.5°	435.7	437.5	442.7	444.9	445.6	444.9	445.6	444.9	442.7	437.5	435.7
165°	424.4	425.8	428.7	431.7	431.7	430.9	431.7	431.7	428.7	425.8	424.4
167.5°	414.0	415.5	417.0	418.5	418.5	417.7	418.5	418.5	417.0	415.5	414.0
170°	404.5	405.2	406.0	408.2	407.4	406.0	407.4	408.2	406.0	405.2	404.5
172.5°	396.0	396.4	397.2	397.9	397.2	396.4	397.2	397.9	397.2	396.4	396.0
175°	389.5	389.8	389.8	390.6	389.8	388.4	389.8	390.6	389.8	389.8	389.5
177.5°	384.7	384.7	384.7	384.7	384.0	382.5	384.0	384.7	384.7	384.7	384.7
180°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

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°	23.5	22.0	23.5	24.2	25.0	24.2	19.8	14.7	11.0	9.9	8.8
92.5°	55.1	63.1	74.1	94.7	113.1	111.6	86.6	58.7	38.9	34.8	30.8
95°	116.7	147.6	192.3	251.8	287.8	254.7	169.6	105.7	71.9	63.1	54.3
97.5°	240.1	314.2	393.5	472.8	469.1	362.7	225.4	136.6	93.2	83.3	73.4
100°	478.7	579.2	670.3	685.7	580.0	399.4	240.8	151.2	112.3	102.0	91.8
102.5°	781.9	848.7	851.6	765.0	583.6	385.4	241.5	164.4	129.2	119.0	108.7
105°	984.5	974.9	892.0	739.3	544.0	366.3	245.2	179.9	145.4	135.1	124.8
107.5°	1044.0	972.0	848.7	685.0	507.3	356.1	253.3	195.3	161.5	151.2	141.0
110°	1014.6	920.6	789.2	634.3	482.3	353.1	263.6	210.7	178.4	167.8	157.1

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	961.7	859.7	734.9	599.1	466.2	353.9	274.6	225.4	194.5	183.5	172.5
115°	901.5	805.4	692.3	571.2	455.2	356.8	285.6	240.8	209.2	199.3	189.4
117.5°	847.9	758.4	657.1	552.1	449.3	361.2	297.3	254.7	225.4	215.1	204.8
120°	800.9	723.1	632.1	537.4	444.2	365.6	309.1	269.4	240.8	230.5	220.2
122.5°	766.4	693.8	612.3	524.9	441.2	370.7	319.4	283.4	256.9	246.3	235.7
125°	733.4	668.8	593.2	513.2	437.5	375.9	330.4	297.3	270.9	260.6	250.3
127.5°	705.5	643.8	574.1	502.2	435.3	381.0	340.6	310.5	284.8	274.2	263.6
130°	676.9	618.9	555.7	491.1	433.9	386.9	350.2	322.3	296.6	286.3	276.0
132.5°	647.5	595.4	538.1	482.3	433.1	392.8	359.7	332.6	308.3	298.0	287.8
135°	618.9	570.4	522.0	474.3	432.4	397.2	367.8	342.1	318.6	308.4	298.1
137.5°	590.3	550.6	508.8	468.4	432.4	401.6	374.4	350.2	326.7	317.2	307.6
140°	565.3	531.5	496.3	463.2	431.7	404.5	379.6	356.8	334.8	325.2	315.7
142.5°	542.5	514.6	486.0	458.1	431.7	406.7	384.0	361.9	340.6	331.8	323.0
145°	523.4	500.7	476.5	453.7	430.2	408.2	387.6	367.1	347.2	339.2	331.1
147.5°	507.3	488.9	469.1	449.3	428.0	408.9	389.8	371.5	352.4	345.0	337.7
150°	492.6	477.2	461.0	443.4	425.8	408.2	391.3	374.4	357.5	350.9	344.3
152.5°	480.1	467.6	453.0	438.3	422.1	406.7	392.0	377.3	362.7	356.8	350.9
155°	468.4	457.4	445.6	431.7	417.7	405.2	392.8	380.3	367.8	362.3	356.8
157.5°	456.6	447.1	436.8	425.8	413.3	402.3	392.8	382.5	371.5	366.7	361.9
160°	444.9	436.8	428.7	419.2	408.9	400.1	392.8	384.0	375.1	371.1	367.1
162.5°	433.9	427.3	420.7	413.3	405.2	397.9	392.0	384.7	377.3	374.4	371.5
165°	422.9	417.7	412.6	406.7	400.1	395.0	390.6	385.4	378.8	376.6	374.4
167.5°	412.6	408.9	404.5	400.1	395.7	392.0	389.8	385.4	380.3	378.8	377.3
170°	403.8	400.8	398.6	395.0	392.0	389.8	388.4	384.7	381.0	379.9	378.8
172.5°	395.7	393.5	392.0	389.8	387.6	386.9	386.2	384.0	381.8	381.0	380.3
175°	389.1	388.4	387.6	385.4	384.7	384.0	384.7	383.2	381.8	381.4	381.0
177.5°	384.7	384.0	384.0	382.5	381.8	382.5	384.0	382.5	381.8	381.8	381.8
180°	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8	381.8

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

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°	7.3	5.9	2.9	0.7
92.5°	25.0	21.3	15.4	11.0
95°	42.6	36.0	28.6	25.7
97.5°	60.2	50.7	42.6	38.2
100°	77.1	65.3	58.7	56.5
102.5°	93.2	81.5	74.9	73.4
105°	108.7	97.6	92.5	89.6
107.5°	124.8	114.5	109.4	107.2
110°	141.7	132.1	127.7	124.8



TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	157.8	149.0	143.9	141.0
115°	174.7	165.9	161.5	157.8
117.5°	190.9	182.8	178.4	175.5
120°	205.6	199.0	194.5	191.6
122.5°	221.0	213.6	209.2	207.0
125°	235.7	226.9	222.4	220.2
127.5°	249.6	240.1	234.2	231.3
130°	261.4	251.1	243.7	240.8
132.5°	272.4	261.4	253.3	249.6
135°	281.2	270.2	261.4	258.4
137.5°	290.7	279.0	270.2	266.5
140°	299.5	287.8	279.0	276.0
142.5°	307.6	295.9	287.8	285.6
145°	316.4	305.4	298.1	295.1
147.5°	325.2	314.9	307.6	305.4
150°	333.3	323.8	317.9	315.7
152.5°	340.6	332.6	326.7	326.0
155°	348.7	340.6	336.2	335.5
157.5°	355.3	348.0	344.3	343.6
160°	361.2	355.3	352.4	351.7
162.5°	366.3	361.9	359.0	359.7
165°	370.7	366.3	364.9	365.6
167.5°	374.4	371.5	370.0	370.7
170°	377.3	375.1	374.4	375.9
172.5°	379.6	377.3	378.1	378.8
175°	381.0	379.6	380.3	381.0
177.5°	381.8	380.3	381.0	382.5
180°	381.8	381.8	381.8	381.8

TEST NUMBER: P998311

CATALOG NUMBER: SA2XXDIP-B290D725UB50-4F0-XX-W2A-A4

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.35	12.05	12.46	13.15	14.67	8.85	9.54	9.95	10.64	12.16
	3H	12.15	12.78	13.27	13.88	15.42	10.18	10.80	11.29	11.91	13.44
	4H	12.31	12.91	13.44	14.01	15.55	10.63	11.23	11.76	12.33	13.87
	6H	12.35	12.90	13.48	14.01	15.55	10.93	11.48	12.07	12.59	14.14
	8H	12.33	12.84	13.46	13.97	15.51	11.01	11.53	12.15	12.66	14.20
	12H	12.28	12.77	13.42	13.89	15.46	11.05	11.54	12.19	12.66	14.22
4H	2H	11.37	11.97	12.51	13.08	14.61	9.27	9.86	10.40	10.97	12.51
	3H	12.34	12.83	13.48	13.97	15.52	10.72	11.21	11.86	12.35	13.90
	4H	12.61	13.06	13.75	14.19	15.76	11.25	11.70	12.39	12.82	14.39
	6H	12.73	13.12	13.88	14.27	15.83	11.62	12.00	12.76	13.15	14.71
	8H	12.73	13.09	13.87	14.23	15.80	11.72	12.09	12.87	13.22	14.80
	12H	12.68	13.01	13.85	14.16	15.74	11.77	12.10	12.94	13.25	14.83
8H	4H	12.61	12.97	13.75	14.11	15.68	11.38	11.74	12.52	12.88	14.45
	6H	12.78	13.08	13.95	14.26	15.83	11.81	12.10	12.97	13.28	14.86
	8H	12.81	13.07	13.98	14.23	15.82	11.95	12.21	13.13	13.37	14.97
	12H	12.79	13.02	13.96	14.17	15.80	12.04	12.27	13.22	13.43	15.05
12H	4H	12.56	12.89	13.72	14.04	15.62	11.34	11.67	12.51	12.82	14.40
	6H	12.76	13.02	13.93	14.18	15.77	11.80	12.06	12.98	13.22	14.82
	8H	12.78	13.01	13.96	14.17	15.80	11.95	12.18	13.13	13.34	14.97