

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: P998207

Luminaire Tested: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998207
REPORT IS A COMBINATION OF REPORTS P983947 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

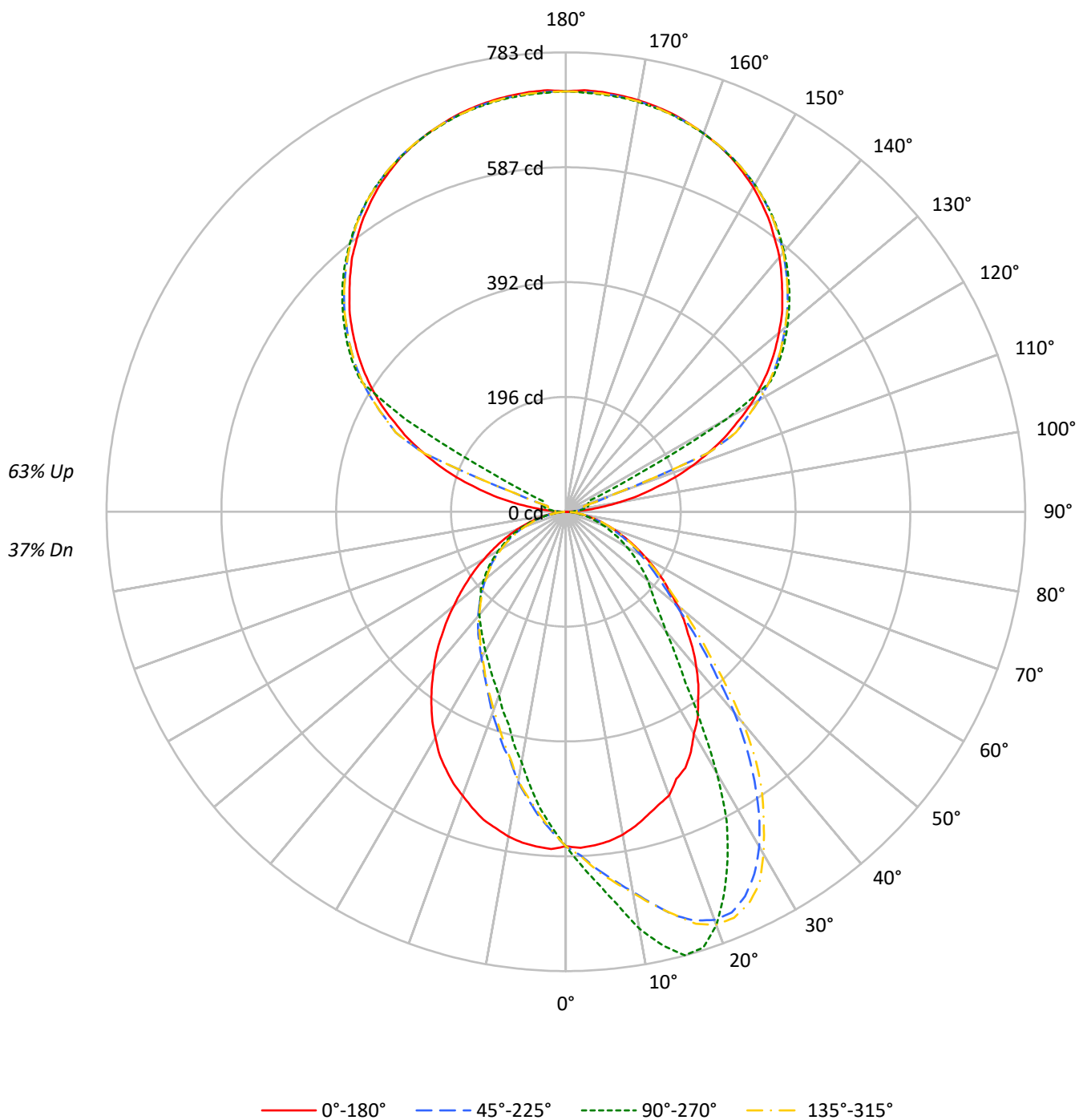
Lumens per Lamp: N/A
Luminaire Lumens: 3360.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V): 120
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38
2	87	80	74	69	79	73	68	64	59	56	53	47	45	43	36	34	33
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28
4	73	63	55	49	66	57	51	46	47	42	39	38	34	32	29	27	25
5	67	56	48	42	61	51	44	39	42	37	33	34	30	28	26	24	22
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19
7	57	45	38	32	52	42	35	30	35	30	26	28	24	22	22	19	17
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	18	16
9	49	38	30	26	45	35	28	24	29	24	21	24	20	17	19	16	14
10	46	35	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9026	9026	9026	9026
5°	9047	9623	9082	7656
10°	8942	10506	8998	6312
15°	8725	11080	8846	5317
20°	8589	10405	8589	4622
25°	8316	8938	8353	4132
30°	7865	7027	8014	3744
35°	7466	4859	7591	3424
40°	7007	3669	7088	3171
45°	6443	3015	6548	2896
50°	5952	2646	5964	2652
55°	5396	2254	5430	2386
60°	4801	1883	4867	2082
65°	4269	1532	4348	1779
70°	3737	1201	3833	1435
75°	3138	873	3261	1039
80°	2451	553	2627	618
85°	1610	277	1737	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9330 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.6
10°-20°	158.1	4.7
20°-30°	229.4	6.8
30°-40°	241.8	7.2
40°-50°	214.0	6.4
50°-60°	170.9	5.1
60°-70°	116.1	3.5
70°-80°	59.4	1.8
80°-90°	15.3	0.5
90°-100°	23.6	0.7
100°-110°	88.1	2.6
110°-120°	233.6	7.0
120°-130°	387.5	11.5
130°-140°	411.6	12.2
140°-150°	382.5	11.4
150°-160°	307.5	9.2
160°-170°	198.2	5.9
170°-180°	68.2	2.0
0°-30°	441.8	13.1
0°-40°	683.6	20.3
0°-60°	1068.5	31.8
0°-90°	1259.3	37.5
90°-120°	345.3	10.3
90°-150°	1526.9	45.4
90°-180°	2101.0	62.5
0°-180°	3360.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	570	570	570	570	570	
5°	571	637	573	507	571	54
15°	536	783	543	376	536	151
25°	482	652	484	302	482	220
35°	393	355	400	250	393	246
45°	295	214	300	206	295	229
55°	202	150	204	159	202	181
65°	120	92	122	107	120	119
75°	56	46	58	54	56	60
85°	11	12	12	9	11	13
90°	0	14	0	14	0	3
95°	34	22	34	22	34	40
105°	158	39	158	39	158	168
115°	298	42	298	42	298	293
125°	422	443	422	443	422	376
135°	522	539	522	539	522	403
145°	605	614	605	614	605	378
155°	666	667	666	667	666	307
165°	702	700	702	700	702	198
175°	718	714	718	714	718	68
180°	717	717	717	717	717	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	573.3	574.6	576.8	577.2	581.6	585.1	589.0	589.0	590.3	589.9	586.4
5°	570.6	574.6	580.3	585.1	593.0	596.5	601.7	605.7	609.2	611.8	611.4
7.5°	566.2	573.3	581.6	590.8	601.3	607.4	614.9	621.9	626.7	631.1	634.2
10°	558.8	570.6	582.0	594.3	607.9	616.2	625.0	634.2	641.6	649.9	657.8
12.5°	548.7	565.8	579.8	596.0	612.7	621.9	635.9	642.9	657.4	678.4	684.1
15°	536.0	559.2	572.4	593.0	614.9	622.3	641.6	653.0	682.8	696.0	711.7
17.5°	524.2	550.0	567.6	591.2	612.7	627.2	646.0	669.2	694.2	713.1	730.6
20°	514.5	539.5	560.5	586.8	614.0	632.4	652.1	680.2	707.4	726.6	740.2
22.5°	492.6	524.6	549.1	578.5	611.4	636.8	655.6	686.3	715.7	727.5	739.4
25°	481.7	509.3	537.8	571.1	609.6	639.9	656.1	690.3	716.1	720.5	723.1
27.5°	461.5	492.6	525.9	564.0	609.2	634.6	655.2	686.3	706.9	703.9	696.0
30°	436.5	474.6	511.5	552.7	603.1	630.7	649.9	678.4	689.0	673.2	659.2
32.5°	418.1	454.0	494.8	542.6	596.0	622.3	641.2	663.5	665.7	637.2	613.6
35°	393.1	433.0	479.0	529.4	584.2	607.9	625.4	639.0	628.5	588.6	560.5
37.5°	370.8	410.2	459.3	510.6	568.0	591.2	605.2	607.4	581.6	546.5	505.3
40°	346.2	387.0	438.3	492.2	550.0	570.2	578.9	572.4	535.1	494.4	446.6
42.5°	321.7	362.0	417.2	472.5	527.2	544.3	547.8	529.9	484.3	436.5	381.3
45°	295.0	337.0	392.2	447.9	500.9	510.6	511.0	485.2	431.3	381.3	330.0
47.5°	273.0	312.0	366.8	422.5	467.2	473.8	471.1	441.3	382.6	326.5	281.8
50°	248.9	286.2	340.5	395.3	433.4	435.2	428.6	386.1	328.7	277.4	241.9
52.5°	223.1	260.8	310.7	363.3	397.5	394.9	382.2	336.6	282.7	240.2	213.0
55°	202.5	235.8	282.7	334.0	358.1	350.6	336.6	290.1	247.6	211.7	188.0
57.5°	179.7	209.1	255.1	299.8	313.8	306.8	292.8	249.4	209.9	182.8	167.0
60°	158.2	184.9	225.3	262.5	273.5	266.0	249.8	210.8	182.3	159.5	147.7
62.5°	138.5	161.7	195.5	229.7	234.0	226.6	212.6	181.0	156.5	138.5	129.7
65°	120.1	142.0	169.2	195.0	199.0	191.1	176.6	153.8	133.2	121.8	113.5
67.5°	102.1	119.6	143.8	162.6	164.8	157.3	145.5	127.1	114.4	102.1	96.0
70°	86.3	99.5	118.3	133.7	134.5	127.5	121.4	104.7	95.1	86.3	81.5
72.5°	71.0	80.2	94.7	106.1	106.5	102.1	96.4	85.9	77.6	71.4	66.6
75°	56.1	64.0	72.8	82.8	82.4	78.9	74.5	67.9	60.9	57.0	54.8
77.5°	43.0	47.8	54.8	61.4	61.4	59.6	57.0	52.2	47.8	43.8	41.6
80°	30.7	33.7	39.4	41.6	42.5	42.1	39.9	36.4	34.6	31.6	30.7
82.5°	19.7	21.9	24.5	26.7	28.0	27.2	26.7	25.0	22.4	21.5	20.6
85°	11.4	12.3	13.6	14.9	15.3	14.9	15.8	14.5	13.1	13.1	12.7
87.5°	4.8	5.3	6.1	6.1	6.6	6.6	6.1	6.6	6.6	6.1	5.7
90°	0.5	1.8	3.0	4.3	5.6	6.2	6.7	7.6	8.5	9.5	10.4
92.5°	13.0	12.5	12.1	11.6	11.1	10.9	11.1	11.4	11.7	12.1	12.4
95°	33.7	29.9	26.1	22.3	18.5	16.6	17.0	17.8	18.6	19.4	20.2
97.5°	60.7	51.2	41.8	32.3	22.8	18.1	19.0	20.9	22.7	24.6	26.4
100°	91.8	76.0	60.2	44.4	28.6	20.7	21.7	23.7	25.6	27.6	29.6
102.5°	126.0	125.8	125.6	125.3	125.1	125.0	114.5	93.5	72.6	51.6	30.6
105°	157.6	161.1	164.5	168.0	171.5	173.2	157.5	126.0	94.5	63.1	31.6
107.5°	194.4	197.3	200.2	203.1	206.0	207.4	188.0	149.2	110.3	71.5	32.7
110°	229.7	232.1	234.5	237.0	239.4	240.6	223.9	190.6	157.3	124.0	90.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	262.9	265.0	267.0	269.1	271.2	272.2	271.2	269.3	267.3	265.4	263.4
115°	298.1	300.1	302.1	304.0	306.0	307.0	308.4	311.3	314.2	317.0	319.9
117.5°	328.7	331.0	333.3	335.6	337.9	339.1	340.1	342.0	344.0	345.9	347.9
120°	363.0	364.7	366.4	368.1	369.8	370.7	371.7	373.8	375.9	378.0	380.1
122.5°	392.0	393.8	395.7	397.5	399.4	400.3	401.5	403.8	406.1	408.4	410.7
125°	421.5	423.0	424.5	426.0	427.5	428.3	429.4	431.6	433.7	435.9	438.1
127.5°	448.5	450.1	451.7	453.4	455.0	455.8	456.7	458.4	460.1	461.8	463.5
130°	473.9	475.7	477.6	479.4	481.3	482.2	482.8	484.1	485.4	486.6	487.9
132.5°	499.8	501.3	502.8	504.3	505.8	506.6	507.2	508.5	509.8	511.0	512.3
135°	521.6	523.4	525.3	527.1	529.0	529.9	530.4	531.5	532.5	533.6	534.6
137.5°	544.4	545.8	547.2	548.6	550.0	550.7	551.3	552.4	553.5	554.7	555.8
140°	566.7	567.6	568.6	569.5	570.4	570.9	571.5	572.8	574.1	575.3	576.6
142.5°	585.4	586.2	587.0	587.8	588.6	589.0	589.8	591.3	592.8	594.3	595.8
145°	605.1	605.0	604.9	604.8	604.7	604.6	605.6	607.5	609.5	611.4	613.4
147.5°	622.2	621.8	621.5	621.1	620.8	620.6	621.6	623.6	625.5	627.5	629.5
150°	638.8	638.0	637.2	636.4	635.6	635.2	636.1	638.0	639.8	641.7	643.5
152.5°	652.8	651.9	650.9	650.0	649.1	648.6	649.5	651.2	652.9	654.7	656.4
155°	666.3	665.3	664.2	663.2	662.1	661.6	662.3	663.7	665.0	666.4	667.8
157.5°	677.2	676.3	675.3	674.4	673.5	673.0	673.5	674.6	675.6	676.7	677.7
160°	686.5	685.8	685.1	684.4	683.7	683.4	683.7	684.4	685.1	685.8	686.5
162.5°	694.8	694.1	693.4	692.7	692.0	691.7	692.0	692.6	693.1	693.7	694.3
165°	702.1	701.4	700.7	700.0	699.3	698.9	699.1	699.4	699.8	700.1	700.5
167.5°	707.8	707.1	706.4	705.7	705.0	704.6	704.8	705.1	705.5	705.8	706.2
170°	712.4	711.7	711.0	710.3	709.6	709.3	709.4	709.7	709.9	710.2	710.4
172.5°	715.5	714.8	714.1	713.4	712.7	712.4	712.5	712.8	713.0	713.3	713.5
175°	718.1	717.3	716.5	715.7	714.9	714.5	714.6	714.8	715.1	715.3	715.5
177.5°	719.2	718.4	717.6	716.7	715.9	715.5	715.6	715.7	715.8	716.0	716.1
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	592.5	593.0	593.9	598.2	600.4	600.9	599.1	603.1	604.4	603.1	602.2
5°	620.6	623.2	628.5	634.2	633.7	634.2	636.8	639.4	640.3	636.8	638.1
7.5°	645.1	650.4	656.1	664.8	664.8	669.2	671.0	673.2	678.4	675.8	674.9
10°	673.2	680.2	690.7	704.7	705.2	709.6	713.9	720.9	723.1	721.4	722.3
12.5°	708.2	721.8	722.7	738.0	745.1	745.9	752.9	751.6	756.0	756.0	763.5
15°	723.6	744.6	756.4	771.3	775.7	770.5	776.2	782.3	782.7	782.7	782.3
17.5°	751.2	759.5	771.3	779.2	781.0	781.0	781.4	784.1	782.3	778.8	781.4
20°	756.9	760.4	764.8	763.9	764.8	760.4	756.0	751.6	752.1	749.9	756.4
22.5°	746.4	745.5	735.4	728.8	728.8	720.1	711.7	707.8	703.9	705.2	707.4
25°	720.1	706.5	694.2	684.6	682.4	668.4	657.0	653.5	646.9	652.1	653.0
27.5°	678.0	662.7	642.9	634.6	623.2	617.5	609.6	599.1	585.5	593.4	592.1
30°	632.9	610.1	593.9	573.7	555.7	554.4	539.5	522.0	515.0	515.0	518.9
32.5°	582.5	552.2	528.5	500.1	482.5	475.1	457.1	439.6	443.5	430.4	435.2
35°	523.7	483.8	454.0	426.4	413.3	404.5	381.3	371.6	361.1	355.0	366.4
37.5°	467.6	421.6	383.5	353.2	348.4	332.6	316.9	310.7	304.6	307.2	306.8
40°	399.3	358.5	324.3	300.7	292.3	284.9	274.4	266.9	263.0	265.2	265.6
42.5°	337.5	303.3	277.9	261.2	254.2	248.9	243.7	237.5	236.2	236.2	238.0
45°	289.7	261.6	244.6	231.0	227.0	223.1	219.1	216.5	215.6	213.9	215.2
47.5°	251.6	229.2	218.7	208.6	204.2	203.4	199.8	198.5	196.8	196.3	196.8
50°	219.6	205.5	195.9	190.2	187.1	185.8	184.1	181.4	180.6	182.8	181.9
52.5°	197.2	184.1	178.8	173.1	171.4	169.6	167.0	167.4	167.0	166.1	166.1
55°	174.9	166.5	161.3	156.9	156.5	154.7	152.5	151.6	151.2	150.3	151.6
57.5°	156.9	150.3	145.5	141.6	139.8	139.8	137.6	135.9	135.9	135.4	135.9
60°	138.9	132.4	129.3	125.3	124.0	123.6	122.3	121.4	120.1	120.1	120.1
62.5°	122.3	117.0	113.5	110.0	110.4	108.3	106.5	105.6	105.6	106.1	106.1
65°	106.5	103.0	98.6	95.5	94.7	94.2	93.4	92.9	91.6	92.5	92.5
67.5°	92.0	87.2	84.6	83.3	82.0	81.5	80.6	79.8	79.3	78.9	79.8
70°	77.6	73.6	71.4	70.6	69.2	68.8	68.4	67.1	67.5	67.9	68.4
72.5°	64.4	60.9	60.5	57.9	57.9	57.9	56.1	57.0	56.5	55.7	56.5
75°	50.8	49.1	48.2	46.9	47.3	46.9	46.5	45.1	45.1	45.6	46.0
77.5°	40.3	38.6	38.1	36.8	35.9	36.8	35.9	35.5	35.5	35.9	35.9
80°	29.8	28.9	27.6	27.6	27.6	27.2	27.2	27.2	26.7	26.3	26.7
82.5°	19.7	19.7	19.3	18.8	19.3	18.4	18.8	18.8	18.8	18.8	18.8
85°	12.7	12.3	12.3	11.8	11.8	11.8	12.3	11.4	11.4	11.8	11.8
87.5°	5.7	5.7	5.7	6.1	5.7	5.7	5.7	6.1	5.7	5.7	5.7
90°	11.0	11.6	12.1	12.7	13.0	13.1	13.3	13.6	13.8	14.0	13.8
92.5°	12.6	12.9	13.1	13.4	13.5	13.6	13.7	13.8	13.9	14.0	13.9
95°	20.8	21.4	21.9	22.5	22.8	22.7	22.6	22.5	22.4	22.3	22.4
97.5°	26.8	27.1	27.5	27.8	28.0	28.1	28.2	28.3	28.4	28.5	28.4
100°	30.5	31.4	32.3	33.2	33.7	33.8	34.0	34.3	34.5	34.7	34.5
102.5°	31.9	33.1	34.4	35.7	36.3	36.5	36.8	37.2	37.5	37.9	37.5
105°	32.9	34.1	35.4	36.7	37.3	37.5	38.0	38.5	38.9	39.4	38.9
107.5°	34.0	35.2	36.5	37.8	38.4	38.6	39.1	39.5	40.0	40.4	40.0
110°	79.2	67.7	56.2	44.7	38.9	39.1	39.6	40.1	40.5	41.0	40.5

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	213.7	164.1	114.4	64.7	39.9	40.1	40.4	40.8	41.1	41.5	41.1
115°	266.5	213.2	159.8	106.5	79.8	75.7	67.4	59.1	50.8	42.5	50.8
117.5°	331.4	315.0	298.5	282.0	273.8	258.7	228.5	198.3	168.1	137.9	168.1
120°	381.5	382.9	384.2	385.6	386.3	378.5	363.0	347.4	331.9	316.3	331.9
122.5°	411.4	412.1	412.8	413.5	413.8	413.9	414.0	414.1	414.2	414.3	414.2
125°	438.9	439.7	440.6	441.4	441.8	442.0	442.3	442.6	443.0	443.3	443.0
127.5°	464.7	465.8	467.0	468.1	468.7	468.8	468.9	469.0	469.1	469.2	469.1
130°	489.2	490.4	491.7	493.0	493.6	493.5	493.4	493.3	493.2	493.1	493.2
132.5°	513.3	514.3	515.4	516.4	516.9	516.8	516.7	516.6	516.5	516.4	516.5
135°	535.8	536.9	538.1	539.2	539.8	539.7	539.4	539.2	538.9	538.7	538.9
137.5°	557.0	558.1	559.3	560.4	561.0	560.8	560.5	560.2	559.8	559.5	559.8
140°	577.6	578.6	579.7	580.7	581.2	580.9	580.4	579.8	579.3	578.7	579.3
142.5°	596.7	597.6	598.5	599.4	599.9	599.6	599.0	598.5	597.9	597.3	597.9
145°	614.2	615.0	615.8	616.6	617.0	616.7	616.1	615.6	615.0	614.4	615.0
147.5°	630.1	630.7	631.2	631.8	632.1	631.9	631.4	630.9	630.5	630.0	630.5
150°	644.2	644.9	645.6	646.3	646.6	646.3	645.7	645.2	644.6	644.0	644.6
152.5°	657.1	657.8	658.5	659.2	659.5	659.1	658.3	657.5	656.7	655.9	656.7
155°	668.5	669.2	669.9	670.6	670.9	670.4	669.5	668.6	667.7	666.8	667.7
157.5°	678.5	679.3	680.1	680.9	681.3	680.8	679.9	679.0	678.1	677.2	678.1
160°	687.2	687.9	688.6	689.3	689.6	689.2	688.4	687.6	686.8	686.0	686.8
162.5°	695.1	695.9	696.7	697.5	697.9	697.4	696.3	695.3	694.2	693.2	694.2
165°	701.3	702.1	702.9	703.7	704.1	703.7	702.9	702.1	701.3	700.5	701.3
167.5°	707.0	707.8	708.6	709.4	709.8	709.3	708.3	707.2	706.2	705.2	706.2
170°	711.2	712.0	712.8	713.6	714.0	713.5	712.4	711.4	710.3	709.3	710.3
172.5°	714.3	715.1	715.9	716.7	717.1	716.6	715.5	714.5	713.4	712.4	713.4
175°	716.3	717.1	718.0	718.8	719.2	718.6	717.5	716.3	715.2	714.0	715.2
177.5°	716.9	717.7	718.5	719.3	719.7	719.2	718.1	717.1	716.0	715.0	716.0
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	604.4	601.3	598.7	599.1	601.3	599.5	595.2	589.5	587.3	584.6	587.3
5°	640.7	638.1	632.9	633.3	632.0	630.2	623.2	614.4	614.4	607.4	606.6
7.5°	676.7	672.7	669.2	668.4	663.5	660.0	653.9	641.6	636.8	628.5	623.7
10°	717.0	713.9	710.0	705.2	702.5	696.4	686.3	668.4	659.6	648.2	639.9
12.5°	757.8	757.3	748.6	738.9	738.5	728.8	721.8	697.7	685.9	670.5	650.8
15°	783.6	781.4	776.6	771.8	773.1	762.6	746.8	718.3	710.4	692.0	671.0
17.5°	783.2	783.2	781.9	781.0	779.7	776.6	767.8	749.0	736.3	713.1	693.3
20°	758.2	763.9	765.2	764.8	769.2	771.3	770.9	759.1	749.0	728.4	708.2
22.5°	708.2	721.4	727.1	730.6	739.8	744.6	756.0	751.6	749.0	733.7	716.6
25°	661.8	666.2	683.3	684.1	696.8	708.7	720.1	727.5	737.2	731.5	717.0
27.5°	601.7	611.8	624.1	633.3	635.9	660.0	678.9	692.9	714.8	716.6	711.7
30°	533.8	538.6	558.8	571.1	585.1	602.6	629.8	653.9	673.6	691.6	697.7
32.5°	451.0	470.7	482.5	497.4	509.7	540.8	574.1	605.2	628.0	658.3	671.4
35°	375.2	390.5	410.7	416.8	439.1	465.4	508.8	548.7	583.3	614.0	640.7
37.5°	312.5	324.8	346.2	355.9	369.0	402.8	439.1	488.7	530.3	568.0	601.3
40°	269.5	278.7	295.0	298.0	309.0	339.7	369.0	415.5	470.7	521.5	557.9
42.5°	240.2	244.6	255.5	259.5	266.5	287.1	313.4	357.2	408.5	461.1	512.3
45°	219.1	222.2	228.8	232.3	241.0	250.2	271.7	306.8	347.1	400.1	455.4
47.5°	200.3	204.2	206.9	209.1	213.9	224.0	238.0	263.8	302.4	351.1	404.5
50°	184.5	185.8	190.6	191.1	194.2	200.7	213.9	229.7	260.3	299.8	351.5
52.5°	168.7	170.0	173.1	176.2	177.5	182.8	191.5	204.7	227.5	258.6	304.6
55°	153.0	154.7	157.8	160.0	161.3	165.7	170.9	183.6	201.6	223.5	261.2
57.5°	137.2	141.1	142.0	143.3	145.5	150.3	155.1	162.6	176.6	196.8	224.4
60°	122.3	123.6	126.7	128.0	130.2	132.8	138.9	144.6	154.7	170.5	195.5
62.5°	106.9	110.0	111.3	112.6	114.4	117.5	121.4	127.5	136.3	149.0	168.7
65°	93.8	94.2	96.9	98.6	100.4	102.6	106.5	112.2	117.5	129.3	143.8
67.5°	81.1	82.0	82.8	84.6	86.8	89.0	92.5	95.5	102.1	110.0	121.4
70°	68.8	68.8	71.0	72.3	71.9	74.5	77.1	80.6	85.5	92.9	102.1
72.5°	57.9	57.4	59.2	59.6	60.5	62.2	64.0	67.5	70.1	75.8	82.8
75°	46.0	46.9	47.8	47.8	49.1	50.4	52.2	53.9	57.0	60.5	65.7
77.5°	36.4	36.4	37.3	37.7	39.0	38.6	40.3	42.1	44.3	47.3	51.3
80°	26.7	27.6	27.6	27.6	28.0	28.5	30.2	31.6	32.9	35.1	36.8
82.5°	18.8	18.8	19.7	19.7	19.7	20.6	20.6	21.0	21.9	23.2	24.5
85°	11.8	11.8	11.8	12.3	11.8	12.3	13.1	12.7	13.1	14.0	14.0
87.5°	5.7	5.7	5.7	5.7	5.7	6.1	5.7	6.1	6.6	6.6	6.6
90°	13.6	13.3	13.1	13.0	12.7	12.1	11.6	11.0	10.4	9.5	8.5
92.5°	13.8	13.7	13.6	13.5	13.4	13.1	12.9	12.6	12.4	12.1	11.7
95°	22.5	22.6	22.7	22.8	22.5	21.9	21.4	20.8	20.2	19.4	18.6
97.5°	28.3	28.2	28.1	28.0	27.8	27.5	27.1	26.8	26.4	24.6	22.7
100°	34.3	34.0	33.8	33.7	33.2	32.3	31.4	30.5	29.6	27.6	25.6
102.5°	37.2	36.8	36.5	36.3	35.7	34.4	33.1	31.9	30.6	51.6	72.6
105°	38.5	38.0	37.5	37.3	36.7	35.4	34.1	32.9	31.6	63.1	94.5
107.5°	39.5	39.1	38.6	38.4	37.8	36.5	35.2	34.0	32.7	71.5	110.3
110°	40.1	39.6	39.1	38.9	44.7	56.2	67.7	79.2	90.7	124.0	157.3

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	40.8	40.4	40.1	39.9	64.7	114.4	164.1	213.7	263.4	265.4	267.3
115°	59.1	67.4	75.7	79.8	106.5	159.8	213.2	266.5	319.9	317.0	314.2
117.5°	198.3	228.5	258.7	273.8	282.0	298.5	315.0	331.4	347.9	345.9	344.0
120°	347.4	363.0	378.5	386.3	385.6	384.2	382.9	381.5	380.1	378.0	375.9
122.5°	414.1	414.0	413.9	413.8	413.5	412.8	412.1	411.4	410.7	408.4	406.1
125°	442.6	442.3	442.0	441.8	441.4	440.6	439.7	438.9	438.1	435.9	433.7
127.5°	469.0	468.9	468.8	468.7	468.1	467.0	465.8	464.7	463.5	461.8	460.1
130°	493.3	493.4	493.5	493.6	493.0	491.7	490.4	489.2	487.9	486.6	485.4
132.5°	516.6	516.7	516.8	516.9	516.4	515.4	514.3	513.3	512.3	511.0	509.8
135°	539.2	539.4	539.7	539.8	539.2	538.1	536.9	535.8	534.6	533.6	532.5
137.5°	560.2	560.5	560.8	561.0	560.4	559.3	558.1	557.0	555.8	554.7	553.5
140°	579.8	580.4	580.9	581.2	580.7	579.7	578.6	577.6	576.6	575.3	574.1
142.5°	598.5	599.0	599.6	599.9	599.4	598.5	597.6	596.7	595.8	594.3	592.8
145°	615.6	616.1	616.7	617.0	616.6	615.8	615.0	614.2	613.4	611.4	609.5
147.5°	630.9	631.4	631.9	632.1	631.8	631.2	630.7	630.1	629.5	627.5	625.5
150°	645.2	645.7	646.3	646.6	646.3	645.6	644.9	644.2	643.5	641.7	639.8
152.5°	657.5	658.3	659.1	659.5	659.2	658.5	657.8	657.1	656.4	654.7	652.9
155°	668.6	669.5	670.4	670.9	670.6	669.9	669.2	668.5	667.8	666.4	665.0
157.5°	679.0	679.9	680.8	681.3	680.9	680.1	679.3	678.5	677.7	676.7	675.6
160°	687.6	688.4	689.2	689.6	689.3	688.6	687.9	687.2	686.5	685.8	685.1
162.5°	695.3	696.3	697.4	697.9	697.5	696.7	695.9	695.1	694.3	693.7	693.1
165°	702.1	702.9	703.7	704.1	703.7	702.9	702.1	701.3	700.5	700.1	699.8
167.5°	707.2	708.3	709.3	709.8	709.4	708.6	707.8	707.0	706.2	705.8	705.5
170°	711.4	712.4	713.5	714.0	713.6	712.8	712.0	711.2	710.4	710.2	709.9
172.5°	714.5	715.5	716.6	717.1	716.7	715.9	715.1	714.3	713.5	713.3	713.0
175°	716.3	717.5	718.6	719.2	718.8	718.0	717.1	716.3	715.5	715.3	715.1
177.5°	717.1	718.1	719.2	719.7	719.3	718.5	717.7	716.9	716.1	716.0	715.8
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	585.1	582.9	581.6	582.5	579.8	573.3	573.3	575.4	572.8	570.2	566.2
5°	601.3	596.9	594.3	593.9	587.7	577.2	575.0	572.8	567.1	561.0	554.4
7.5°	617.1	609.2	604.8	601.7	593.0	579.4	573.7	568.9	559.7	550.5	542.1
10°	630.2	618.8	613.6	608.8	597.4	580.3	571.1	562.3	550.5	538.6	528.1
12.5°	640.7	627.6	621.0	614.0	600.0	577.6	566.2	552.2	540.4	524.6	514.1
15°	658.3	631.1	625.0	618.4	603.9	573.3	559.2	543.4	527.2	506.2	494.8
17.5°	672.3	635.9	635.5	621.5	602.6	571.5	550.0	529.4	511.9	490.9	472.9
20°	680.6	643.4	636.4	621.9	598.2	559.7	537.3	514.5	495.7	470.3	452.3
22.5°	687.6	653.9	635.5	618.0	589.0	555.7	522.9	501.4	475.5	447.9	430.8
25°	690.3	656.1	636.8	616.6	582.5	544.3	507.1	483.8	454.9	429.9	406.7
27.5°	690.7	655.6	632.0	610.9	573.3	529.4	491.3	466.8	434.8	405.8	382.6
30°	686.3	650.8	629.4	606.6	564.5	515.8	472.0	444.8	410.7	381.7	357.6
32.5°	673.2	641.2	623.7	598.7	553.1	497.0	453.6	423.4	387.4	358.9	335.7
35°	651.3	629.4	610.1	586.8	538.2	479.5	435.2	399.7	363.3	336.2	314.2
37.5°	624.1	612.3	594.3	571.5	521.1	463.7	414.6	375.2	338.8	312.5	291.0
40°	587.3	590.3	572.8	552.2	500.9	442.2	387.9	350.2	316.0	291.4	270.4
42.5°	547.4	560.1	550.0	530.3	478.6	418.5	368.1	326.5	293.2	267.8	250.2
45°	504.4	526.4	520.2	505.8	455.4	393.6	340.1	299.8	270.4	245.9	230.5
47.5°	457.5	488.7	488.7	478.1	429.5	368.6	316.0	274.8	245.9	228.3	213.4
50°	409.8	444.8	450.5	443.5	400.6	340.1	286.6	249.4	224.4	207.3	196.3
52.5°	359.8	400.6	411.1	407.6	369.9	312.9	262.5	226.1	203.4	188.5	178.8
55°	312.0	359.4	370.8	372.1	337.0	283.1	235.8	203.8	181.9	171.8	163.5
57.5°	266.9	312.5	325.2	327.4	303.7	255.9	210.8	182.8	163.0	154.7	148.1
60°	228.3	266.5	283.1	287.9	267.3	224.4	187.6	160.4	145.5	137.6	131.5
62.5°	196.8	227.5	245.0	246.3	237.1	196.8	163.5	140.7	128.0	121.0	117.9
65°	166.1	193.7	204.2	209.5	202.0	170.5	141.1	122.3	112.2	106.1	103.0
67.5°	141.6	159.1	167.9	174.9	167.4	143.8	120.1	104.7	97.3	91.2	89.4
70°	116.1	130.6	137.2	144.2	137.6	119.6	102.6	88.5	82.0	77.1	74.9
72.5°	92.9	104.3	110.4	114.8	110.9	96.0	82.0	72.3	67.5	64.0	62.7
75°	73.6	81.5	85.0	88.1	86.3	74.9	66.2	58.3	53.9	50.8	50.0
77.5°	56.1	61.8	65.7	66.6	64.4	57.0	49.5	44.7	41.2	39.4	38.6
80°	39.9	43.4	45.6	46.9	44.7	41.6	36.4	32.9	29.8	27.6	27.2
82.5°	26.7	28.5	30.2	29.8	28.9	26.3	23.2	21.5	20.2	18.4	18.4
85°	15.3	15.8	16.7	17.1	16.7	14.9	13.1	12.3	11.4	10.1	10.1
87.5°	6.6	7.0	7.0	7.5	6.6	6.6	5.7	4.8	4.8	4.4	3.9
90°	7.6	6.7	6.2	5.6	4.3	3.0	1.8	0.5	1.8	3.0	4.3
92.5°	11.4	11.1	10.9	11.1	11.6	12.1	12.5	13.0	12.5	12.1	11.6
95°	17.8	17.0	16.6	18.5	22.3	26.1	29.9	33.7	29.9	26.1	22.3
97.5°	20.9	19.0	18.1	22.8	32.3	41.8	51.2	60.7	51.2	41.8	32.3
100°	23.7	21.7	20.7	28.6	44.4	60.2	76.0	91.8	76.0	60.2	44.4
102.5°	93.5	114.5	125.0	125.1	125.3	125.6	125.8	126.0	125.8	125.6	125.3
105°	126.0	157.5	173.2	171.5	168.0	164.5	161.1	157.6	161.1	164.5	168.0
107.5°	149.2	188.0	207.4	206.0	203.1	200.2	197.3	194.4	197.3	200.2	203.1
110°	190.6	223.9	240.6	239.4	237.0	234.5	232.1	229.7	232.1	234.5	237.0

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	269.3	271.2	272.2	271.2	269.1	267.0	265.0	262.9	265.0	267.0	269.1
115°	311.3	308.4	307.0	306.0	304.0	302.1	300.1	298.1	300.1	302.1	304.0
117.5°	342.0	340.1	339.1	337.9	335.6	333.3	331.0	328.7	331.0	333.3	335.6
120°	373.8	371.7	370.7	369.8	368.1	366.4	364.7	363.0	364.7	366.4	368.1
122.5°	403.8	401.5	400.3	399.4	397.5	395.7	393.8	392.0	393.8	395.7	397.5
125°	431.6	429.4	428.3	427.5	426.0	424.5	423.0	421.5	423.0	424.5	426.0
127.5°	458.4	456.7	455.8	455.0	453.4	451.7	450.1	448.5	450.1	451.7	453.4
130°	484.1	482.8	482.2	481.3	479.4	477.6	475.7	473.9	475.7	477.6	479.4
132.5°	508.5	507.2	506.6	505.8	504.3	502.8	501.3	499.8	501.3	502.8	504.3
135°	531.5	530.4	529.9	529.0	527.1	525.3	523.4	521.6	523.4	525.3	527.1
137.5°	552.4	551.3	550.7	550.0	548.6	547.2	545.8	544.4	545.8	547.2	548.6
140°	572.8	571.5	570.9	570.4	569.5	568.6	567.6	566.7	567.6	568.6	569.5
142.5°	591.3	589.8	589.0	588.6	587.8	587.0	586.2	585.4	586.2	587.0	587.8
145°	607.5	605.6	604.6	604.7	604.8	604.9	605.0	605.1	605.0	604.9	604.8
147.5°	623.6	621.6	620.6	620.8	621.1	621.5	621.8	622.2	621.8	621.5	621.1
150°	638.0	636.1	635.2	635.6	636.4	637.2	638.0	638.8	638.0	637.2	636.4
152.5°	651.2	649.5	648.6	649.1	650.0	650.9	651.9	652.8	651.9	650.9	650.0
155°	663.7	662.3	661.6	662.1	663.2	664.2	665.3	666.3	665.3	664.2	663.2
157.5°	674.6	673.5	673.0	673.5	674.4	675.3	676.3	677.2	676.3	675.3	674.4
160°	684.4	683.7	683.4	683.7	684.4	685.1	685.8	686.5	685.8	685.1	684.4
162.5°	692.6	692.0	691.7	692.0	692.7	693.4	694.1	694.8	694.1	693.4	692.7
165°	699.4	699.1	698.9	699.3	700.0	700.7	701.4	702.1	701.4	700.7	700.0
167.5°	705.1	704.8	704.6	705.0	705.7	706.4	707.1	707.8	707.1	706.4	705.7
170°	709.7	709.4	709.3	709.6	710.3	711.0	711.7	712.4	711.7	711.0	710.3
172.5°	712.8	712.5	712.4	712.7	713.4	714.1	714.8	715.5	714.8	714.1	713.4
175°	714.8	714.6	714.5	714.9	715.7	716.5	717.3	718.1	717.3	716.5	715.7
177.5°	715.7	715.6	715.5	715.9	716.7	717.6	718.4	719.2	718.4	717.6	716.7
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	564.0	566.2	565.8	561.4	556.6	552.7	545.2	546.1	543.4	543.9	546.5
5°	550.0	550.0	548.3	542.1	534.2	529.9	521.5	519.3	514.1	513.6	513.2
7.5°	535.1	532.9	530.7	522.0	512.3	505.3	493.9	491.3	486.0	482.5	480.8
10°	517.6	514.5	510.1	500.1	488.2	479.5	467.6	464.1	454.0	449.7	447.0
12.5°	498.3	496.6	489.5	481.2	461.9	452.3	435.2	438.7	428.6	419.9	418.5
15°	479.0	472.5	468.5	454.9	431.7	427.3	413.7	406.7	397.5	390.5	390.5
17.5°	460.2	450.1	441.3	426.9	409.8	397.5	387.4	383.9	372.5	365.5	364.2
20°	435.2	423.8	421.6	401.0	389.2	375.6	366.0	357.2	348.9	345.8	343.6
22.5°	411.5	398.4	394.9	377.3	365.5	351.9	342.3	336.2	330.0	327.8	323.9
25°	386.1	378.2	373.0	354.1	341.0	328.3	321.7	317.3	311.6	311.2	308.5
27.5°	361.6	354.1	348.9	330.9	321.2	309.4	304.2	299.3	296.3	295.0	293.6
30°	340.5	332.2	326.1	312.9	301.1	291.4	287.1	284.0	282.2	280.1	279.6
32.5°	317.3	312.5	304.2	294.1	284.9	275.7	273.0	270.8	268.2	267.3	266.9
35°	297.6	291.0	285.7	274.4	270.4	262.5	259.5	257.7	254.2	253.3	252.4
37.5°	278.3	272.2	266.5	259.5	252.0	247.6	245.9	243.2	241.5	241.9	241.0
40°	259.0	254.2	249.8	242.4	238.0	235.8	232.3	229.7	228.8	229.2	228.8
42.5°	240.2	235.8	233.2	227.5	223.1	220.9	218.7	216.1	217.4	217.4	218.7
45°	223.1	219.1	217.4	213.0	210.4	206.9	204.7	204.2	206.0	205.5	205.5
47.5°	205.5	204.2	202.0	198.1	194.6	192.4	192.0	192.0	193.7	194.6	194.2
50°	192.0	189.3	186.7	183.6	181.0	180.1	178.8	179.7	181.4	181.4	182.3
52.5°	174.9	173.1	172.2	169.6	167.9	167.9	167.9	168.3	169.6	170.9	170.5
55°	160.0	158.7	157.8	156.5	154.3	154.7	154.3	155.1	156.5	157.8	158.7
57.5°	144.2	143.8	142.9	140.7	140.7	140.2	141.6	142.0	144.2	145.1	146.4
60°	130.2	128.9	128.9	127.1	127.1	127.1	128.4	129.7	131.5	131.9	132.8
62.5°	115.3	115.3	114.8	113.5	113.5	114.8	115.3	117.0	117.9	117.9	119.2
65°	101.2	100.8	100.4	100.8	101.2	101.2	102.6	103.4	104.3	104.7	105.2
67.5°	87.2	86.8	87.7	87.2	88.1	89.8	89.4	90.7	92.0	92.0	92.5
70°	74.1	74.9	74.5	75.4	74.9	75.8	77.1	77.6	77.6	78.0	79.3
72.5°	61.8	61.8	61.8	61.4	61.8	62.7	63.5	64.0	64.9	65.3	66.6
75°	50.0	50.0	49.1	50.0	50.0	50.8	51.7	51.7	51.7	52.6	53.9
77.5°	37.7	38.1	37.7	38.6	38.6	39.0	39.9	39.4	40.3	40.8	41.2
80°	27.6	27.2	27.2	27.2	27.6	27.6	28.5	28.9	28.9	30.2	29.4
82.5°	17.5	18.0	17.5	18.0	18.0	18.4	18.0	18.4	18.8	19.7	19.3
85°	10.1	9.6	9.6	10.1	9.6	9.6	10.1	9.6	10.1	9.6	10.1
87.5°	3.9	3.5	3.5	3.5	3.5	3.1	3.1	2.6	2.6	2.6	2.2
90°	5.6	6.2	6.7	7.6	8.5	9.5	10.4	11.0	11.6	12.1	12.7
92.5°	11.1	10.9	11.1	11.4	11.7	12.1	12.4	12.6	12.9	13.1	13.4
95°	18.5	16.6	17.0	17.8	18.6	19.4	20.2	20.8	21.4	21.9	22.5
97.5°	22.8	18.1	19.0	20.9	22.7	24.6	26.4	26.8	27.1	27.5	27.8
100°	28.6	20.7	21.7	23.7	25.6	27.6	29.6	30.5	31.4	32.3	33.2
102.5°	125.1	125.0	114.5	93.5	72.6	51.6	30.6	31.9	33.1	34.4	35.7
105°	171.5	173.2	157.5	126.0	94.5	63.1	31.6	32.9	34.1	35.4	36.7
107.5°	206.0	207.4	188.0	149.2	110.3	71.5	32.7	34.0	35.2	36.5	37.8
110°	239.4	240.6	223.9	190.6	157.3	124.0	90.7	79.2	67.7	56.2	44.7

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	271.2	272.2	271.2	269.3	267.3	265.4	263.4	213.7	164.1	114.4	64.7
115°	306.0	307.0	308.4	311.3	314.2	317.0	319.9	266.5	213.2	159.8	106.5
117.5°	337.9	339.1	340.1	342.0	344.0	345.9	347.9	331.4	315.0	298.5	282.0
120°	369.8	370.7	371.7	373.8	375.9	378.0	380.1	381.5	382.9	384.2	385.6
122.5°	399.4	400.3	401.5	403.8	406.1	408.4	410.7	411.4	412.1	412.8	413.5
125°	427.5	428.3	429.4	431.6	433.7	435.9	438.1	438.9	439.7	440.6	441.4
127.5°	455.0	455.8	456.7	458.4	460.1	461.8	463.5	464.7	465.8	467.0	468.1
130°	481.3	482.2	482.8	484.1	485.4	486.6	487.9	489.2	490.4	491.7	493.0
132.5°	505.8	506.6	507.2	508.5	509.8	511.0	512.3	513.3	514.3	515.4	516.4
135°	529.0	529.9	530.4	531.5	532.5	533.6	534.6	535.8	536.9	538.1	539.2
137.5°	550.0	550.7	551.3	552.4	553.5	554.7	555.8	557.0	558.1	559.3	560.4
140°	570.4	570.9	571.5	572.8	574.1	575.3	576.6	577.6	578.6	579.7	580.7
142.5°	588.6	589.0	589.8	591.3	592.8	594.3	595.8	596.7	597.6	598.5	599.4
145°	604.7	604.6	605.6	607.5	609.5	611.4	613.4	614.2	615.0	615.8	616.6
147.5°	620.8	620.6	621.6	623.6	625.5	627.5	629.5	630.1	630.7	631.2	631.8
150°	635.6	635.2	636.1	638.0	639.8	641.7	643.5	644.2	644.9	645.6	646.3
152.5°	649.1	648.6	649.5	651.2	652.9	654.7	656.4	657.1	657.8	658.5	659.2
155°	662.1	661.6	662.3	663.7	665.0	666.4	667.8	668.5	669.2	669.9	670.6
157.5°	673.5	673.0	673.5	674.6	675.6	676.7	677.7	678.5	679.3	680.1	680.9
160°	683.7	683.4	683.7	684.4	685.1	685.8	686.5	687.2	687.9	688.6	689.3
162.5°	692.0	691.7	692.0	692.6	693.1	693.7	694.3	695.1	695.9	696.7	697.5
165°	699.3	698.9	699.1	699.4	699.8	700.1	700.5	701.3	702.1	702.9	703.7
167.5°	705.0	704.6	704.8	705.1	705.5	705.8	706.2	707.0	707.8	708.6	709.4
170°	709.6	709.3	709.4	709.7	709.9	710.2	710.4	711.2	712.0	712.8	713.6
172.5°	712.7	712.4	712.5	712.8	713.0	713.3	713.5	714.3	715.1	715.9	716.7
175°	714.9	714.5	714.6	714.8	715.1	715.3	715.5	716.3	717.1	718.0	718.8
177.5°	715.9	715.5	715.6	715.7	715.8	716.0	716.1	716.9	717.7	718.5	719.3
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	543.4	544.8	541.7	540.8	541.7	538.6	539.5	540.4	540.4	541.7	542.6
5°	511.9	510.1	507.1	506.2	505.3	506.6	505.8	507.1	507.5	510.6	511.0
7.5°	480.8	478.1	475.5	472.9	472.0	469.8	472.0	472.0	475.1	474.2	476.4
10°	444.0	443.5	440.0	438.7	437.0	433.4	438.3	437.0	439.1	443.1	444.0
12.5°	416.8	412.0	414.2	408.0	410.2	406.7	407.1	407.1	410.7	411.1	410.2
15°	390.9	387.0	381.3	378.7	377.3	375.6	381.3	381.7	379.1	385.2	383.0
17.5°	364.6	364.6	359.4	358.1	354.6	356.3	355.4	355.9	355.0	359.4	361.6
20°	341.8	339.7	337.9	338.3	334.0	333.1	332.2	333.1	336.2	339.2	340.1
22.5°	323.4	322.1	317.7	318.6	315.1	316.4	315.6	317.7	318.2	318.2	321.2
25°	305.9	304.2	304.6	302.8	301.5	301.5	300.2	301.5	303.3	304.2	304.6
27.5°	292.8	291.4	289.3	287.9	288.8	286.6	288.4	289.7	289.7	288.8	289.7
30°	277.0	277.9	277.9	273.5	275.2	274.4	275.7	276.5	276.5	277.0	276.1
32.5°	266.5	263.8	263.4	263.0	263.0	261.2	261.2	262.5	263.0	263.4	264.7
35°	252.4	252.4	250.2	251.6	249.8	250.2	249.8	250.2	251.1	249.8	251.1
37.5°	239.7	240.2	239.3	240.2	240.6	239.7	238.9	240.6	239.7	239.7	238.9
40°	228.8	228.3	228.8	228.8	228.8	229.2	228.3	228.3	228.3	227.5	226.6
42.5°	219.6	216.9	217.8	218.3	216.9	216.9	217.4	216.9	218.3	215.6	215.6
45°	206.4	205.5	206.0	206.0	206.9	205.5	206.4	206.9	205.5	205.1	204.2
47.5°	194.6	195.5	194.6	195.5	195.5	196.3	194.6	195.0	195.5	193.7	192.4
50°	182.8	182.8	184.1	183.6	184.1	183.2	183.2	182.8	183.2	182.3	181.0
52.5°	171.8	170.5	172.7	172.2	171.8	171.4	170.9	171.4	170.5	169.6	169.6
55°	158.2	158.2	159.5	160.0	160.0	159.1	158.2	158.7	158.2	157.8	157.3
57.5°	147.3	145.5	146.4	146.8	146.8	145.5	146.4	145.5	145.5	145.9	144.6
60°	133.2	133.2	132.4	133.7	133.7	132.8	132.8	133.2	132.4	131.9	131.5
62.5°	118.3	118.8	120.1	120.5	121.0	120.1	119.2	119.6	119.6	118.3	118.8
65°	105.6	106.5	108.3	107.8	106.9	107.4	106.5	106.9	105.6	106.1	104.7
67.5°	93.4	92.9	93.4	93.4	94.2	93.8	92.9	92.9	92.5	93.8	92.5
70°	80.2	80.2	80.2	80.2	80.6	81.1	80.2	79.3	79.8	78.9	78.4
72.5°	66.6	67.1	66.6	67.5	66.2	67.1	67.1	66.6	66.2	66.2	66.2
75°	53.9	54.8	53.5	53.9	53.5	54.3	53.9	53.9	53.0	52.6	53.0
77.5°	41.2	41.6	40.8	41.2	40.8	41.2	41.2	40.8	40.8	40.8	40.8
80°	29.4	29.8	29.4	28.9	28.5	29.4	28.5	28.9	29.4	28.9	29.8
82.5°	18.8	18.8	18.4	18.8	18.0	18.0	18.4	18.4	18.0	18.8	18.0
85°	9.2	9.2	10.1	9.2	8.8	8.8	8.8	9.2	8.8	9.6	9.2
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.6	1.8
90°	13.0	13.1	13.3	13.6	13.8	14.0	13.8	13.6	13.3	13.1	13.0
92.5°	13.5	13.6	13.7	13.8	13.9	14.0	13.9	13.8	13.7	13.6	13.5
95°	22.8	22.7	22.6	22.5	22.4	22.3	22.4	22.5	22.6	22.7	22.8
97.5°	28.0	28.1	28.2	28.3	28.4	28.5	28.4	28.3	28.2	28.1	28.0
100°	33.7	33.8	34.0	34.3	34.5	34.7	34.5	34.3	34.0	33.8	33.7
102.5°	36.3	36.5	36.8	37.2	37.5	37.9	37.5	37.2	36.8	36.5	36.3
105°	37.3	37.5	38.0	38.5	38.9	39.4	38.9	38.5	38.0	37.5	37.3
107.5°	38.4	38.6	39.1	39.5	40.0	40.4	40.0	39.5	39.1	38.6	38.4
110°	38.9	39.1	39.6	40.1	40.5	41.0	40.5	40.1	39.6	39.1	38.9

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	39.9	40.1	40.4	40.8	41.1	41.5	41.1	40.8	40.4	40.1	39.9
115°	79.8	75.7	67.4	59.1	50.8	42.5	50.8	59.1	67.4	75.7	79.8
117.5°	273.8	258.7	228.5	198.3	168.1	137.9	168.1	198.3	228.5	258.7	273.8
120°	386.3	378.5	363.0	347.4	331.9	316.3	331.9	347.4	363.0	378.5	386.3
122.5°	413.8	413.9	414.0	414.1	414.2	414.3	414.2	414.1	414.0	413.9	413.8
125°	441.8	442.0	442.3	442.6	443.0	443.3	443.0	442.6	442.3	442.0	441.8
127.5°	468.7	468.8	468.9	469.0	469.1	469.2	469.1	469.0	468.9	468.8	468.7
130°	493.6	493.5	493.4	493.3	493.2	493.1	493.2	493.3	493.4	493.5	493.6
132.5°	516.9	516.8	516.7	516.6	516.5	516.4	516.5	516.6	516.7	516.8	516.9
135°	539.8	539.7	539.4	539.2	538.9	538.7	538.9	539.2	539.4	539.7	539.8
137.5°	561.0	560.8	560.5	560.2	559.8	559.5	559.8	560.2	560.5	560.8	561.0
140°	581.2	580.9	580.4	579.8	579.3	578.7	579.3	579.8	580.4	580.9	581.2
142.5°	599.9	599.6	599.0	598.5	597.9	597.3	597.9	598.5	599.0	599.6	599.9
145°	617.0	616.7	616.1	615.6	615.0	614.4	615.0	615.6	616.1	616.7	617.0
147.5°	632.1	631.9	631.4	630.9	630.5	630.0	630.5	630.9	631.4	631.9	632.1
150°	646.6	646.3	645.7	645.2	644.6	644.0	644.6	645.2	645.7	646.3	646.6
152.5°	659.5	659.1	658.3	657.5	656.7	655.9	656.7	657.5	658.3	659.1	659.5
155°	670.9	670.4	669.5	668.6	667.7	666.8	667.7	668.6	669.5	670.4	670.9
157.5°	681.3	680.8	679.9	679.0	678.1	677.2	678.1	679.0	679.9	680.8	681.3
160°	689.6	689.2	688.4	687.6	686.8	686.0	686.8	687.6	688.4	689.2	689.6
162.5°	697.9	697.4	696.3	695.3	694.2	693.2	694.2	695.3	696.3	697.4	697.9
165°	704.1	703.7	702.9	702.1	701.3	700.5	701.3	702.1	702.9	703.7	704.1
167.5°	709.8	709.3	708.3	707.2	706.2	705.2	706.2	707.2	708.3	709.3	709.8
170°	714.0	713.5	712.4	711.4	710.3	709.3	710.3	711.4	712.4	713.5	714.0
172.5°	717.1	716.6	715.5	714.5	713.4	712.4	713.4	714.5	715.5	716.6	717.1
175°	719.2	718.6	717.5	716.3	715.2	714.0	715.2	716.3	717.5	718.6	719.2
177.5°	719.7	719.2	718.1	717.1	716.0	715.0	716.0	717.1	718.1	719.2	719.7
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2	570.2
2.5°	541.3	544.8	543.4	538.6	544.3	544.3	548.3	548.3	553.1	554.8	557.5
5°	510.6	513.2	515.4	513.2	517.2	523.3	526.8	529.9	536.4	539.1	543.0
7.5°	477.7	482.5	484.7	484.7	491.3	498.3	505.3	509.7	518.9	522.4	526.4
10°	445.7	451.4	455.8	455.4	466.3	470.7	479.5	489.5	498.7	504.0	509.7
12.5°	412.0	415.0	421.2	429.9	432.6	440.5	450.5	463.2	479.9	484.7	493.0
15°	383.9	392.2	397.1	401.0	407.1	414.6	425.6	437.8	454.5	465.0	473.8
17.5°	360.3	371.2	374.3	373.4	381.3	392.7	405.4	414.6	429.5	442.2	450.5
20°	341.0	345.4	350.6	352.8	358.9	371.2	383.5	394.0	406.3	416.4	426.0
22.5°	321.7	325.2	329.6	333.5	338.3	345.4	357.2	370.3	382.2	391.8	402.8
25°	305.9	308.1	312.0	315.1	320.4	325.2	333.5	348.0	362.0	367.7	377.3
27.5°	290.6	292.3	295.0	298.5	301.1	305.9	313.4	325.2	339.7	345.4	358.5
30°	277.0	278.3	280.9	282.7	284.0	289.7	295.4	304.6	315.6	323.4	333.1
32.5°	264.3	265.6	268.2	268.7	270.4	273.5	278.7	287.1	296.7	303.3	311.6
35°	250.2	251.1	253.8	254.6	255.9	258.6	262.5	268.7	277.4	282.2	289.7
37.5°	239.3	238.9	240.6	241.9	243.7	245.0	246.3	252.4	259.0	263.4	269.1
40°	227.5	226.6	227.0	228.8	229.7	231.4	231.4	237.5	241.9	245.4	249.8
42.5°	215.6	215.2	214.3	215.2	216.1	216.5	216.9	221.3	225.7	228.8	233.6
45°	203.8	203.4	202.5	202.9	202.9	203.8	205.1	206.9	209.9	212.6	215.2
47.5°	192.8	192.0	190.6	190.2	191.1	191.1	191.1	192.8	195.9	196.8	199.4
50°	181.4	180.1	178.4	177.5	177.5	177.1	177.9	178.4	181.0	181.9	184.1
52.5°	169.2	168.3	166.5	164.8	165.2	164.3	164.8	165.2	166.1	167.4	168.7
55°	156.9	155.1	153.8	153.4	152.1	152.1	150.8	152.5	152.1	152.5	154.3
57.5°	145.1	143.3	141.1	140.2	138.9	138.5	137.6	137.2	137.6	138.9	140.2
60°	131.0	130.2	128.9	127.5	126.7	125.3	124.5	124.5	124.0	124.0	124.5
62.5°	117.5	117.0	115.3	114.8	113.9	113.1	111.8	110.9	110.9	111.8	112.2
65°	104.3	103.9	102.6	102.1	99.9	99.0	98.6	98.2	97.3	97.3	97.3
67.5°	92.0	90.7	90.7	88.5	86.8	85.9	85.0	84.6	84.6	84.6	85.0
70°	78.4	78.4	77.1	75.8	74.1	74.5	73.2	71.9	71.9	71.0	71.4
72.5°	65.3	64.9	63.5	63.1	61.8	60.5	59.6	60.5	59.2	58.7	59.2
75°	52.6	52.2	51.3	50.4	50.8	49.5	48.2	47.8	47.8	46.9	46.9
77.5°	40.3	41.2	39.4	39.0	38.1	37.3	36.8	36.4	36.4	36.4	37.3
80°	28.0	28.5	28.5	27.6	28.0	26.7	26.7	26.7	25.4	25.9	26.3
82.5°	18.0	18.0	17.5	18.0	17.5	17.5	17.1	17.1	16.7	16.7	17.1
85°	10.1	9.6	9.2	10.1	9.6	9.6	9.2	9.2	9.2	9.2	9.2
87.5°	2.2	2.6	2.6	2.6	2.6	3.1	3.1	3.1	3.5	3.5	3.5
90°	12.7	12.1	11.6	11.0	10.4	9.5	8.5	7.6	6.7	6.2	5.6
92.5°	13.4	13.1	12.9	12.6	12.4	12.1	11.7	11.4	11.1	10.9	11.1
95°	22.5	21.9	21.4	20.8	20.2	19.4	18.6	17.8	17.0	16.6	18.5
97.5°	27.8	27.5	27.1	26.8	26.4	24.6	22.7	20.9	19.0	18.1	22.8
100°	33.2	32.3	31.4	30.5	29.6	27.6	25.6	23.7	21.7	20.7	28.6
102.5°	35.7	34.4	33.1	31.9	30.6	51.6	72.6	93.5	114.5	125.0	125.1
105°	36.7	35.4	34.1	32.9	31.6	63.1	94.5	126.0	157.5	173.2	171.5
107.5°	37.8	36.5	35.2	34.0	32.7	71.5	110.3	149.2	188.0	207.4	206.0
110°	44.7	56.2	67.7	79.2	90.7	124.0	157.3	190.6	223.9	240.6	239.4

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	64.7	114.4	164.1	213.7	263.4	265.4	267.3	269.3	271.2	272.2	271.2
115°	106.5	159.8	213.2	266.5	319.9	317.0	314.2	311.3	308.4	307.0	306.0
117.5°	282.0	298.5	315.0	331.4	347.9	345.9	344.0	342.0	340.1	339.1	337.9
120°	385.6	384.2	382.9	381.5	380.1	378.0	375.9	373.8	371.7	370.7	369.8
122.5°	413.5	412.8	412.1	411.4	410.7	408.4	406.1	403.8	401.5	400.3	399.4
125°	441.4	440.6	439.7	438.9	438.1	435.9	433.7	431.6	429.4	428.3	427.5
127.5°	468.1	467.0	465.8	464.7	463.5	461.8	460.1	458.4	456.7	455.8	455.0
130°	493.0	491.7	490.4	489.2	487.9	486.6	485.4	484.1	482.8	482.2	481.3
132.5°	516.4	515.4	514.3	513.3	512.3	511.0	509.8	508.5	507.2	506.6	505.8
135°	539.2	538.1	536.9	535.8	534.6	533.6	532.5	531.5	530.4	529.9	529.0
137.5°	560.4	559.3	558.1	557.0	555.8	554.7	553.5	552.4	551.3	550.7	550.0
140°	580.7	579.7	578.6	577.6	576.6	575.3	574.1	572.8	571.5	570.9	570.4
142.5°	599.4	598.5	597.6	596.7	595.8	594.3	592.8	591.3	589.8	589.0	588.6
145°	616.6	615.8	615.0	614.2	613.4	611.4	609.5	607.5	605.6	604.6	604.7
147.5°	631.8	631.2	630.7	630.1	629.5	627.5	625.5	623.6	621.6	620.6	620.8
150°	646.3	645.6	644.9	644.2	643.5	641.7	639.8	638.0	636.1	635.2	635.6
152.5°	659.2	658.5	657.8	657.1	656.4	654.7	652.9	651.2	649.5	648.6	649.1
155°	670.6	669.9	669.2	668.5	667.8	666.4	665.0	663.7	662.3	661.6	662.1
157.5°	680.9	680.1	679.3	678.5	677.7	676.7	675.6	674.6	673.5	673.0	673.5
160°	689.3	688.6	687.9	687.2	686.5	685.8	685.1	684.4	683.7	683.4	683.7
162.5°	697.5	696.7	695.9	695.1	694.3	693.7	693.1	692.6	692.0	691.7	692.0
165°	703.7	702.9	702.1	701.3	700.5	700.1	699.8	699.4	699.1	698.9	699.3
167.5°	709.4	708.6	707.8	707.0	706.2	705.8	705.5	705.1	704.8	704.6	705.0
170°	713.6	712.8	712.0	711.2	710.4	710.2	709.9	709.7	709.4	709.3	709.6
172.5°	716.7	715.9	715.1	714.3	713.5	713.3	713.0	712.8	712.5	712.4	712.7
175°	718.8	718.0	717.1	716.3	715.5	715.3	715.1	714.8	714.6	714.5	714.9
177.5°	719.3	718.5	717.7	716.9	716.1	716.0	715.8	715.7	715.6	715.5	715.9
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	570.2	570.2	570.2	570.2
2.5°	559.7	559.7	566.2	573.3
5°	547.4	550.5	561.0	570.6
7.5°	535.6	540.8	554.0	566.2
10°	521.1	528.1	544.3	558.8
12.5°	507.1	513.6	532.5	548.7
15°	487.4	495.7	515.8	536.0
17.5°	467.6	476.0	500.5	524.2
20°	444.4	455.4	483.0	514.5
22.5°	422.9	436.5	467.2	492.6
25°	399.3	420.3	448.8	481.7
27.5°	378.2	399.3	428.2	461.5
30°	354.6	376.0	405.8	436.5
32.5°	331.8	351.5	380.4	418.1
35°	308.1	326.9	355.0	393.1
37.5°	286.6	305.0	335.7	370.8
40°	265.6	284.9	311.2	346.2
42.5°	245.9	263.0	286.6	321.7
45°	227.9	240.2	262.1	295.0
47.5°	209.1	220.0	240.2	273.0
50°	191.5	200.7	218.3	248.9
52.5°	174.4	182.3	198.5	223.1
55°	159.1	166.5	178.4	202.5
57.5°	143.3	149.0	160.4	179.7
60°	128.0	133.2	142.4	158.2
62.5°	112.6	117.0	125.8	138.5
65°	99.0	102.6	109.1	120.1
67.5°	85.9	88.1	93.4	102.1
70°	73.2	74.9	79.3	86.3
72.5°	59.6	61.4	66.2	71.0
75°	48.2	48.6	52.2	56.1
77.5°	37.7	37.3	39.9	43.0
80°	25.9	27.2	29.4	30.7
82.5°	17.5	18.0	18.8	19.7
85°	9.6	10.1	10.1	11.4
87.5°	3.9	4.4	4.4	4.8
90°	4.3	3.0	1.8	0.5
92.5°	11.6	12.1	12.5	13.0
95°	22.3	26.1	29.9	33.7
97.5°	32.3	41.8	51.2	60.7
100°	44.4	60.2	76.0	91.8
102.5°	125.3	125.6	125.8	126.0
105°	168.0	164.5	161.1	157.6
107.5°	203.1	200.2	197.3	194.4
110°	237.0	234.5	232.1	229.7

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	269.1	267.0	265.0	262.9
115°	304.0	302.1	300.1	298.1
117.5°	335.6	333.3	331.0	328.7
120°	368.1	366.4	364.7	363.0
122.5°	397.5	395.7	393.8	392.0
125°	426.0	424.5	423.0	421.5
127.5°	453.4	451.7	450.1	448.5
130°	479.4	477.6	475.7	473.9
132.5°	504.3	502.8	501.3	499.8
135°	527.1	525.3	523.4	521.6
137.5°	548.6	547.2	545.8	544.4
140°	569.5	568.6	567.6	566.7
142.5°	587.8	587.0	586.2	585.4
145°	604.8	604.9	605.0	605.1
147.5°	621.1	621.5	621.8	622.2
150°	636.4	637.2	638.0	638.8
152.5°	650.0	650.9	651.9	652.8
155°	663.2	664.2	665.3	666.3
157.5°	674.4	675.3	676.3	677.2
160°	684.4	685.1	685.8	686.5
162.5°	692.7	693.4	694.1	694.8
165°	700.0	700.7	701.4	702.1
167.5°	705.7	706.4	707.1	707.8
170°	710.3	711.0	711.7	712.4
172.5°	713.4	714.1	714.8	715.5
175°	715.7	716.5	717.3	718.1
177.5°	716.7	717.6	718.4	719.2
180°	716.6	716.6	716.6	716.6

TEST NUMBER: P998207

CATALOG NUMBER: SA2XXDIP-B290D530UB2750-4F0-XX-W2A-A_2700K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.19	12.93	13.26	13.99	15.43	9.69	10.42	10.75	11.48	12.93
	3H	13.00	13.65	14.07	14.72	16.18	11.02	11.68	12.09	12.75	14.21
	4H	13.16	13.78	14.24	14.85	16.32	11.48	12.10	12.56	13.17	14.64
	6H	13.20	13.77	14.29	14.85	16.33	11.78	12.35	12.87	13.43	14.91
	8H	13.17	13.72	14.27	14.81	16.28	11.86	12.40	12.96	13.50	14.97
	12H	13.13	13.65	14.23	14.73	16.23	11.90	12.41	13.00	13.50	15.00
4H	2H	12.22	12.84	13.31	13.92	15.38	10.12	10.74	11.21	11.81	13.28
	3H	13.19	13.71	14.29	14.81	16.29	11.57	12.09	12.66	13.19	14.66
	4H	13.46	13.94	14.56	15.03	16.53	12.10	12.57	13.20	13.66	15.16
	6H	13.58	13.99	14.69	15.11	16.60	12.47	12.88	13.58	13.99	15.48
	8H	13.58	13.96	14.69	15.07	16.57	12.58	12.96	13.69	14.06	15.57
	12H	13.54	13.88	14.66	15.00	16.51	12.63	12.97	13.75	14.09	15.60
8H	4H	13.46	13.84	14.57	14.95	16.45	12.23	12.61	13.34	13.71	15.22
	6H	13.63	13.95	14.77	15.10	16.60	12.66	12.97	13.79	14.12	15.63
	8H	13.66	13.94	14.80	15.07	16.59	12.81	13.08	13.95	14.21	15.74
	12H	13.64	13.88	14.78	15.01	16.57	12.89	13.14	14.04	14.26	15.82
12H	4H	13.41	13.76	14.54	14.87	16.39	12.20	12.54	13.32	13.66	15.17
	6H	13.61	13.89	14.75	15.02	16.54	12.66	12.93	13.80	14.06	15.59
	8H	13.64	13.88	14.78	15.00	16.57	12.81	13.05	13.95	14.18	15.74