

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: P998270

Luminaire Tested: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998270
REPORT IS A COMBINATION OF REPORTS P984010 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

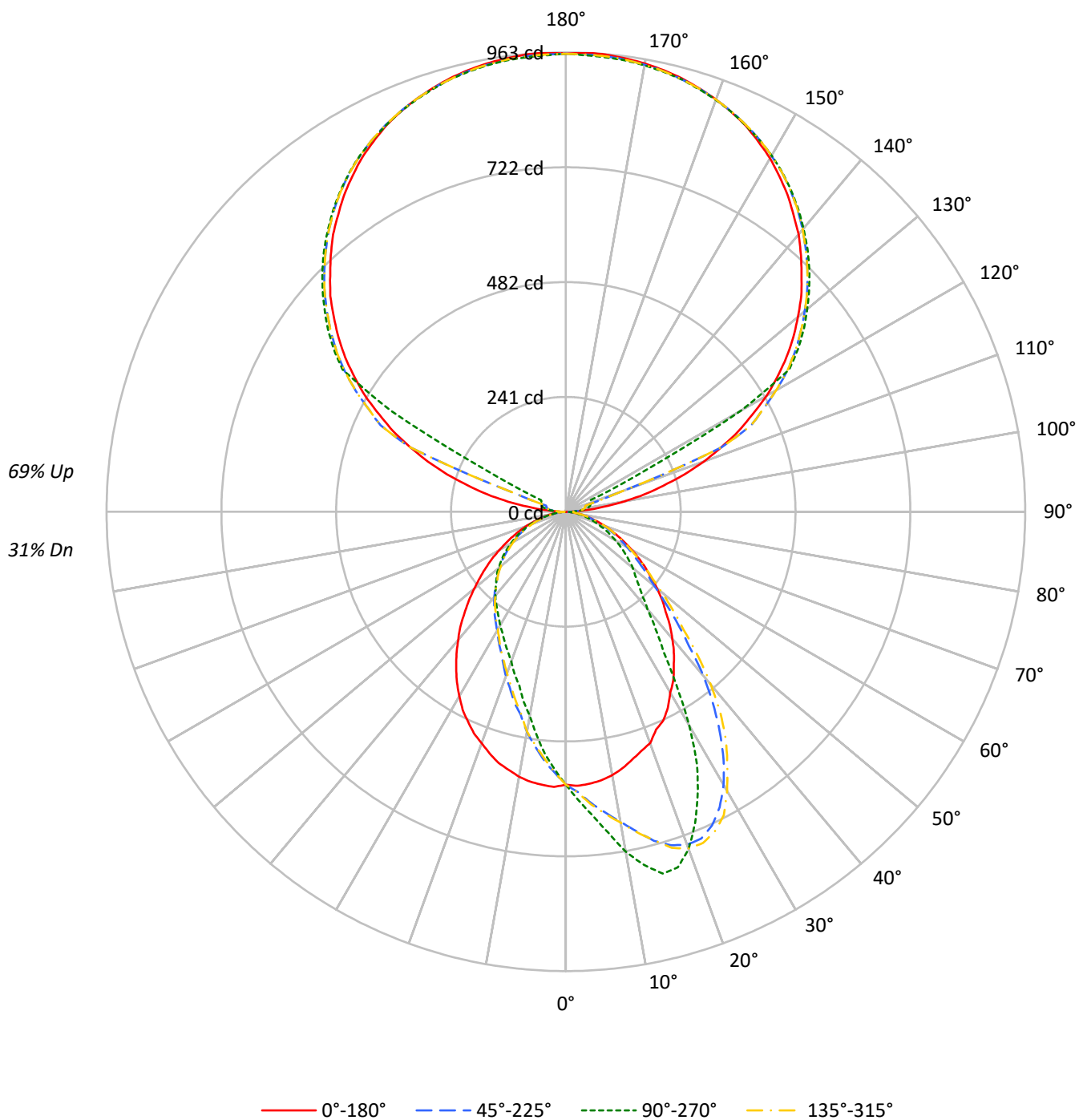
Lumens per Lamp: N/A
Luminaire Lumens: 4078.0 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P998270

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	32	31	30	27
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	31	30	28	27	26	25	23
3	78	69	62	57	70	63	57	52	50	46	43	38	36	33	28	26	24	23	22	21	20
4	72	61	54	48	64	56	49	44	45	40	36	34	31	29	25	23	21	20	19	18	17
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	22	20	19	18	17	16	15
6	61	49	41	36	54	45	38	33	36	31	27	28	25	22	20	18	17	16	15	14	13
7	56	44	37	31	50	40	34	29	33	28	24	25	22	20	19	17	15	14	13	12	12
8	52	40	33	28	47	37	30	26	30	25	22	23	20	17	17	15	13	12	11	10	11
9	48	37	30	25	43	33	27	23	27	23	19	21	18	16	16	14	12	11	10	9	10
10	45	34	27	22	41	31	25	20	25	20	17	20	16	14	15	13	11	10	9	8	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9054	9054	9054	9054
5°	9075	9654	9110	7680
10°	8971	10539	9027	6332
15°	8753	11116	8875	5334
20°	8617	10438	8617	4636
25°	8342	8967	8380	4146
30°	7890	7049	8041	3755
35°	7490	4874	7616	3435
40°	7029	3680	7110	3181
45°	6462	3025	6567	2906
50°	5971	2654	5983	2661
55°	5412	2262	5446	2394
60°	4816	1890	4882	2089
65°	4284	1537	4362	1784
70°	3750	1205	3846	1438
75°	3149	875	3273	1043
80°	2459	555	2635	620
85°	1610	280	1737	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9360 cd/sqm

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.3
10°-20°	158.6	3.9
20°-30°	230.1	5.6
30°-40°	242.6	5.9
40°-50°	214.7	5.3
50°-60°	171.4	4.2
60°-70°	116.4	2.9
70°-80°	59.6	1.5
80°-90°	15.8	0.4
90°-100°	31.7	0.8
100°-110°	118.0	2.9
110°-120°	313.0	7.7
120°-130°	519.1	12.7
130°-140°	551.4	13.5
140°-150°	512.4	12.6
150°-160°	412.0	10.1
160°-170°	265.5	6.5
170°-180°	91.4	2.2
0°-30°	443.2	10.9
0°-40°	685.8	16.8
0°-60°	1071.9	26.3
0°-90°	1263.7	31.0
90°-120°	462.7	11.3
90°-150°	2045.5	50.2
90°-180°	2814.0	69.0
0°-180°	4078.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	572	572	572	572	572	
5°	572	639	575	508	572	54
15°	538	785	545	377	538	152
25°	483	654	485	302	483	221
35°	394	356	401	251	394	247
45°	296	215	301	206	296	230
55°	203	151	204	160	203	181
65°	120	93	123	108	120	120
75°	56	46	58	54	56	60
85°	11	12	12	9	11	13
90°	1	19	1	19	1	3
95°	45	30	45	30	45	53
105°	211	53	211	53	211	226
115°	399	57	399	57	399	393
125°	565	594	565	594	565	504
135°	699	722	699	722	699	540
145°	811	823	811	823	811	507
155°	893	893	893	893	893	411
165°	940	938	940	938	940	266
175°	962	956	962	956	962	92
180°	960	960	960	960	960	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	575.1	576.4	578.6	579.0	583.4	586.9	590.9	590.9	592.2	591.8	588.3
5°	572.4	576.4	582.1	586.9	594.9	598.4	603.7	607.6	611.1	613.8	613.3
7.5°	568.0	575.1	583.4	592.7	603.2	609.4	616.8	623.9	628.7	633.1	636.2
10°	560.6	572.4	583.9	596.2	609.8	618.2	627.0	636.2	643.7	652.0	659.9
12.5°	550.5	567.6	581.7	597.9	614.6	623.9	637.9	645.0	659.5	680.6	686.3
15°	537.7	561.0	574.2	594.9	616.8	624.3	643.7	655.1	685.0	698.2	714.0
17.5°	525.8	551.8	569.4	593.1	614.6	629.2	648.1	671.4	696.4	715.3	732.9
20°	516.2	541.2	562.3	588.7	616.0	634.4	654.2	682.4	709.6	729.0	742.6
22.5°	494.2	526.3	550.9	580.4	613.3	638.8	657.7	688.5	718.0	729.8	741.7
25°	483.2	510.9	539.5	572.9	611.6	641.9	658.2	692.5	718.4	722.8	725.4
27.5°	463.0	494.2	527.6	565.8	611.1	636.6	657.3	688.5	709.2	706.1	698.2
30°	437.9	476.2	513.1	554.4	605.0	632.7	652.0	680.6	691.1	675.3	661.2
32.5°	419.4	455.5	496.4	544.3	597.9	624.3	643.2	665.6	667.8	639.3	615.5
35°	394.4	434.4	480.5	531.1	586.1	609.8	627.4	641.0	630.5	590.5	562.3
37.5°	372.0	411.5	460.8	512.2	569.8	593.1	607.2	609.4	583.4	548.3	506.9
40°	347.3	388.2	439.7	493.7	551.8	572.0	580.8	574.2	536.8	495.9	448.0
42.5°	322.7	363.2	418.6	474.0	528.9	546.1	549.6	531.5	485.8	437.9	382.5
45°	295.9	338.1	393.5	449.3	502.5	512.2	512.6	486.7	432.6	382.5	331.1
47.5°	273.9	313.0	368.0	423.8	468.7	475.3	472.6	442.7	383.8	327.5	282.7
50°	249.7	287.1	341.6	396.6	434.8	436.6	430.0	387.3	329.7	278.3	242.7
52.5°	223.8	261.6	311.7	364.5	398.8	396.1	383.4	337.7	283.6	240.9	213.7
55°	203.1	236.5	283.6	335.0	359.2	351.7	337.7	291.1	248.4	212.4	188.6
57.5°	180.3	209.7	255.9	300.7	314.8	307.8	293.7	250.2	210.6	183.3	167.5
60°	158.7	185.5	226.0	263.4	274.3	266.9	250.6	211.5	182.9	160.0	148.2
62.5°	138.9	162.2	196.1	230.4	234.8	227.3	213.2	181.6	157.0	138.9	130.1
65°	120.5	142.4	169.7	195.6	199.6	191.7	177.2	154.3	133.7	122.2	113.9
67.5°	102.4	120.0	144.2	163.1	165.3	157.8	146.0	127.5	114.8	102.4	96.3
70°	86.6	99.8	118.7	134.1	135.0	127.9	121.8	105.1	95.4	86.6	81.8
72.5°	71.2	80.5	95.0	106.4	106.8	102.4	96.7	86.2	77.8	71.7	66.8
75°	56.3	64.2	73.0	83.1	82.7	79.1	74.7	68.1	61.1	57.2	55.0
77.5°	43.1	47.9	55.0	61.6	61.6	59.8	57.2	52.3	47.9	44.0	41.8
80°	30.8	33.9	39.6	41.8	42.6	42.2	40.0	36.5	34.7	31.7	30.8
82.5°	19.8	22.0	24.6	26.8	28.1	27.3	26.8	25.1	22.4	21.5	20.7
85°	11.4	12.3	13.6	14.9	15.4	14.9	15.8	14.5	13.2	13.2	12.8
87.5°	4.8	5.3	6.2	6.2	6.6	6.6	6.2	6.6	6.6	6.2	5.7
90°	0.7	2.4	4.1	5.8	7.5	8.3	8.9	10.2	11.4	12.7	13.9
92.5°	17.4	16.8	16.2	15.5	14.9	14.6	14.8	15.3	15.8	16.2	16.7
95°	45.2	40.1	35.0	29.9	24.8	22.2	22.7	23.8	24.9	26.0	27.1
97.5°	81.3	68.6	56.0	43.3	30.6	24.3	25.5	28.0	30.5	32.9	35.4
100°	122.9	101.8	80.6	59.5	38.4	27.8	29.1	31.7	34.4	37.0	39.6
102.5°	168.8	168.5	168.2	167.9	167.6	167.4	153.4	125.3	97.2	69.1	41.0
105°	211.2	215.8	220.4	225.1	229.7	232.0	210.9	168.8	126.7	84.5	42.4
107.5°	260.5	264.4	268.2	272.1	276.0	277.9	251.9	199.9	147.8	95.8	43.8
110°	307.7	310.9	314.2	317.4	320.7	322.3	300.0	255.4	210.8	166.2	121.6

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	352.2	355.0	357.8	360.5	363.3	364.7	363.4	360.8	358.1	355.5	352.9
115°	399.4	402.0	404.6	407.3	409.9	411.2	413.1	417.0	420.9	424.7	428.6
117.5°	440.4	443.5	446.6	449.7	452.8	454.3	455.6	458.2	460.9	463.5	466.1
120°	486.2	488.5	490.9	493.2	495.5	496.7	498.1	500.9	503.6	506.4	509.2
122.5°	525.1	527.6	530.1	532.6	535.1	536.3	537.8	540.9	544.0	547.0	550.1
125°	564.7	566.7	568.7	570.8	572.8	573.8	575.3	578.2	581.1	584.1	587.0
127.5°	600.9	603.1	605.2	607.4	609.5	610.6	611.8	614.1	616.4	618.7	621.0
130°	634.9	637.4	639.8	642.3	644.8	646.0	646.8	648.5	650.2	651.9	653.6
132.5°	669.6	671.6	673.6	675.7	677.7	678.7	679.5	681.2	682.9	684.6	686.3
135°	698.8	701.3	703.7	706.2	708.7	709.9	710.6	712.0	713.4	714.8	716.2
137.5°	729.4	731.2	733.1	734.9	736.8	737.7	738.5	740.0	741.5	743.1	744.6
140°	759.2	760.4	761.7	762.9	764.2	764.8	765.6	767.3	769.0	770.7	772.4
142.5°	784.2	785.3	786.4	787.5	788.6	789.1	790.1	792.1	794.1	796.1	798.1
145°	810.6	810.4	810.3	810.1	810.0	809.9	811.2	813.8	816.5	819.1	821.7
147.5°	833.6	833.1	832.7	832.2	831.7	831.5	832.8	835.4	838.1	840.7	843.3
150°	855.8	854.7	853.6	852.5	851.4	850.9	852.1	854.6	857.1	859.5	862.0
152.5°	874.5	873.3	872.1	870.8	869.6	869.0	870.2	872.5	874.8	877.1	879.4
155°	892.6	891.2	889.8	888.4	887.0	886.3	887.2	889.1	891.0	892.8	894.7
157.5°	907.2	906.0	904.7	903.5	902.2	901.6	902.3	903.7	905.1	906.5	907.9
160°	919.7	918.8	917.8	916.9	916.0	915.5	916.0	916.9	917.8	918.8	919.7
162.5°	930.8	929.9	928.9	928.0	927.1	926.6	927.0	927.8	928.5	929.3	930.1
165°	940.5	939.6	938.7	937.8	936.9	936.4	936.6	937.1	937.5	938.0	938.4
167.5°	948.2	947.3	946.3	945.4	944.5	944.0	944.2	944.7	945.2	945.6	946.1
170°	954.4	953.5	952.6	951.7	950.8	950.3	950.4	950.7	951.0	951.3	951.6
172.5°	958.6	957.7	956.7	955.8	954.9	954.4	954.6	954.9	955.2	955.5	955.8
175°	962.1	961.0	959.9	958.8	957.7	957.2	957.4	957.7	958.0	958.3	958.6
177.5°	963.4	962.3	961.3	960.2	959.1	958.6	958.7	958.8	959.0	959.1	959.3
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

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CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	594.4	594.9	595.7	600.1	602.3	602.8	601.0	605.0	606.3	605.0	604.1
5°	622.6	625.2	630.5	636.2	635.7	636.2	638.8	641.5	642.3	638.8	640.1
7.5°	647.2	652.5	658.2	667.0	667.0	671.4	673.1	675.3	680.6	678.0	677.1
10°	675.3	682.4	692.9	707.0	707.4	711.8	716.2	723.2	725.4	723.7	724.6
12.5°	710.5	724.1	725.0	740.4	747.4	748.3	755.3	754.0	758.4	758.4	765.9
15°	725.9	747.0	758.9	773.8	778.2	772.9	778.6	784.8	785.2	785.2	784.8
17.5°	753.6	761.9	773.8	781.7	783.5	783.5	783.9	786.6	784.8	781.3	783.9
20°	759.3	762.8	767.2	766.3	767.2	762.8	758.4	754.0	754.5	752.3	758.9
22.5°	748.7	747.9	737.7	731.2	731.2	722.4	714.0	710.1	706.1	707.4	709.6
25°	722.4	708.7	696.4	686.7	684.6	670.5	659.0	655.5	648.9	654.2	655.1
27.5°	680.2	664.8	645.0	636.6	625.2	619.5	611.6	601.0	587.4	595.3	594.0
30°	634.9	612.0	595.7	575.5	557.5	556.2	541.2	523.6	516.6	516.6	520.6
32.5°	584.3	554.0	530.2	501.7	484.1	476.6	458.6	441.0	444.9	431.7	436.6
35°	525.4	485.4	455.5	427.8	414.6	405.8	382.5	372.8	362.3	356.1	367.6
37.5°	469.1	423.0	384.7	354.4	349.5	333.7	317.9	311.7	305.6	308.2	307.8
40°	400.5	359.6	325.3	301.6	293.3	285.8	275.2	267.8	263.8	266.0	266.4
42.5°	338.5	304.2	278.7	262.0	255.0	249.7	244.5	238.3	237.0	237.0	238.7
45°	290.6	262.5	245.3	231.7	227.7	223.8	219.8	217.2	216.3	214.6	215.9
47.5°	252.4	229.9	219.4	209.3	204.9	204.0	200.5	199.2	197.4	197.0	197.4
50°	220.3	206.2	196.5	190.8	187.7	186.4	184.7	182.0	181.1	183.3	182.5
52.5°	197.8	184.7	179.4	173.7	171.9	170.1	167.5	167.9	167.5	166.6	166.6
55°	175.4	167.1	161.8	157.4	157.0	155.2	153.0	152.1	151.7	150.8	152.1
57.5°	157.4	150.8	146.0	142.0	140.3	140.3	138.1	136.3	136.3	135.9	136.3
60°	139.4	132.8	129.7	125.7	124.4	124.0	122.7	121.8	120.5	120.5	120.5
62.5°	122.7	117.4	113.9	110.4	110.8	108.6	106.8	106.0	106.0	106.4	106.4
65°	106.8	103.3	98.9	95.8	95.0	94.5	93.6	93.2	91.9	92.8	92.8
67.5°	92.3	87.5	84.9	83.5	82.2	81.8	80.9	80.0	79.6	79.1	80.0
70°	77.8	73.9	71.7	70.8	69.5	69.0	68.6	67.3	67.7	68.1	68.6
72.5°	64.6	61.1	60.7	58.0	58.0	58.0	56.3	57.2	56.7	55.8	56.7
75°	51.0	49.2	48.4	47.0	47.5	47.0	46.6	45.3	45.3	45.7	46.2
77.5°	40.4	38.7	38.3	36.9	36.1	36.9	36.1	35.6	35.6	36.1	36.1
80°	29.9	29.0	27.7	27.7	27.7	27.3	27.3	27.3	26.8	26.4	26.8
82.5°	19.8	19.8	19.3	18.9	19.3	18.5	18.9	18.9	18.9	18.9	18.9
85°	12.8	12.3	12.3	11.9	11.9	11.9	12.3	11.4	11.4	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°	14.7	15.5	16.2	17.0	17.4	17.6	17.9	18.2	18.5	18.8	18.5
92.5°	17.0	17.3	17.6	17.9	18.1	18.2	18.3	18.5	18.6	18.8	18.6
95°	27.9	28.7	29.4	30.2	30.6	30.5	30.4	30.2	30.1	29.9	30.1
97.5°	35.9	36.3	36.8	37.3	37.5	37.6	37.7	37.9	38.0	38.2	38.0
100°	40.8	42.1	43.3	44.6	45.2	45.3	45.6	45.9	46.2	46.5	46.2
102.5°	42.7	44.4	46.1	47.8	48.6	48.8	49.3	49.8	50.2	50.7	50.2
105°	44.1	45.8	47.5	49.2	50.0	50.3	50.9	51.6	52.2	52.8	52.2
107.5°	45.5	47.2	48.9	50.6	51.4	51.7	52.3	53.0	53.6	54.2	53.6
110°	106.2	90.7	75.3	59.8	52.1	52.4	53.0	53.7	54.3	54.9	54.3

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	286.4	219.8	153.3	86.8	53.5	53.7	54.2	54.7	55.1	55.6	55.1
115°	357.1	285.7	214.2	142.7	107.0	101.4	90.3	79.2	68.1	57.0	68.1
117.5°	444.0	422.0	399.9	377.8	366.8	346.6	306.1	265.7	225.2	184.8	225.2
120°	511.0	512.9	514.7	516.6	517.5	507.1	486.2	465.4	444.5	423.7	444.5
122.5°	551.0	552.0	552.9	553.8	554.3	554.4	554.5	554.7	554.8	555.0	554.8
125°	588.1	589.1	590.2	591.3	591.8	592.0	592.5	593.0	593.4	593.9	593.4
127.5°	622.5	624.1	625.6	627.1	627.9	628.0	628.1	628.3	628.4	628.6	628.4
130°	655.3	657.0	658.7	660.4	661.3	661.2	661.1	660.9	660.8	660.6	660.8
132.5°	687.7	689.1	690.4	691.8	692.5	692.4	692.3	692.1	692.0	691.8	692.0
135°	717.7	719.3	720.8	722.3	723.1	722.9	722.6	722.3	722.0	721.7	722.0
137.5°	746.2	747.7	749.3	750.8	751.6	751.4	750.9	750.4	750.0	749.5	750.0
140°	773.8	775.2	776.6	778.0	778.7	778.3	777.5	776.8	776.0	775.2	776.0
142.5°	799.3	800.6	801.8	803.1	803.7	803.3	802.5	801.8	801.0	800.2	801.0
145°	822.8	823.9	825.0	826.1	826.6	826.2	825.4	824.7	823.9	823.1	823.9
147.5°	844.1	844.9	845.6	846.4	846.8	846.5	845.9	845.2	844.6	844.0	844.6
150°	862.9	863.9	864.8	865.7	866.2	865.8	865.0	864.3	863.5	862.7	863.5
152.5°	880.3	881.3	882.2	883.1	883.6	883.1	882.0	880.9	879.8	878.7	879.8
155°	895.6	896.5	897.4	898.3	898.8	898.2	897.0	895.7	894.5	893.3	894.5
157.5°	909.0	910.0	911.1	912.2	912.7	912.1	910.9	909.6	908.4	907.2	908.4
160°	920.6	921.6	922.5	923.4	923.9	923.4	922.3	921.2	920.1	919.0	920.1
162.5°	931.2	932.3	933.4	934.5	935.0	934.3	932.9	931.5	930.1	928.7	930.1
165°	939.5	940.6	941.7	942.8	943.3	942.8	941.7	940.6	939.5	938.4	939.5
167.5°	947.2	948.2	949.3	950.4	950.9	950.2	948.8	947.5	946.1	944.7	946.1
170°	952.7	953.8	954.9	956.0	956.5	955.8	954.4	953.1	951.7	950.3	951.7
172.5°	956.9	958.0	959.1	960.2	960.7	960.0	958.6	957.2	955.8	954.4	955.8
175°	959.7	960.7	961.8	962.9	963.4	962.6	961.1	959.6	958.0	956.5	958.0
177.5°	960.4	961.4	962.5	963.6	964.1	963.4	962.0	960.7	959.3	957.9	959.3
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	606.3	603.2	600.6	601.0	603.2	601.5	597.1	591.3	589.1	586.5	589.1
5°	642.8	640.1	634.9	635.3	634.0	632.2	625.2	616.4	616.4	609.4	608.5
7.5°	678.8	674.9	671.4	670.5	665.6	662.1	656.0	643.7	638.8	630.5	625.6
10°	719.3	716.2	712.2	707.4	704.8	698.6	688.5	670.5	661.7	650.3	641.9
12.5°	760.2	759.7	750.9	741.3	740.8	731.2	724.1	699.9	688.1	672.7	652.9
15°	786.1	783.9	779.1	774.2	775.6	765.0	749.2	720.6	712.7	694.2	673.1
17.5°	785.7	785.7	784.4	783.5	782.2	779.1	770.3	751.4	738.6	715.3	695.5
20°	760.6	766.3	767.6	767.2	771.6	773.8	773.4	761.5	751.4	730.7	710.5
22.5°	710.5	723.7	729.4	732.9	742.1	747.0	758.4	754.0	751.4	736.0	718.8
25°	663.9	668.3	685.4	686.3	699.1	710.9	722.4	729.8	739.5	733.8	719.3
27.5°	603.7	613.8	626.1	635.3	637.9	662.1	681.0	695.1	717.1	718.8	714.0
30°	535.5	540.3	560.6	572.9	586.9	604.5	631.8	656.0	675.8	693.8	699.9
32.5°	452.4	472.2	484.1	499.0	511.3	542.5	576.0	607.2	630.0	660.4	673.6
35°	376.3	391.7	412.0	418.1	440.5	466.9	510.4	550.5	585.2	616.0	642.8
37.5°	313.5	325.8	347.3	357.0	370.2	404.0	440.5	490.2	532.0	569.8	603.2
40°	270.4	279.6	295.9	299.0	310.0	340.7	370.2	416.8	472.2	523.2	559.7
42.5°	240.9	245.3	256.3	260.3	267.3	288.0	314.4	358.3	409.8	462.5	514.0
45°	219.8	222.9	229.5	233.0	241.8	251.0	272.6	307.8	348.2	401.4	456.8
47.5°	200.9	204.9	207.5	209.7	214.6	224.7	238.7	264.7	303.4	352.2	405.8
50°	185.1	186.4	191.3	191.7	194.8	201.4	214.6	230.4	261.2	300.7	352.6
52.5°	169.3	170.6	173.7	176.7	178.1	183.3	192.1	205.3	228.2	259.4	305.6
55°	153.4	155.2	158.3	160.5	161.8	166.2	171.5	184.2	202.2	224.2	262.0
57.5°	137.6	141.6	142.4	143.8	146.0	150.8	155.6	163.1	177.2	197.4	225.1
60°	122.7	124.0	127.1	128.4	130.6	133.2	139.4	145.1	155.2	171.0	196.1
62.5°	107.3	110.4	111.7	113.0	114.8	117.8	121.8	127.9	136.7	149.5	169.3
65°	94.1	94.5	97.2	98.9	100.7	102.9	106.8	112.6	117.8	129.7	144.2
67.5°	81.3	82.2	83.1	84.9	87.1	89.3	92.8	95.8	102.4	110.4	121.8
70°	69.0	69.0	71.2	72.5	72.1	74.7	77.4	80.9	85.7	93.2	102.4
72.5°	58.0	57.6	59.4	59.8	60.7	62.4	64.2	67.7	70.3	76.1	83.1
75°	46.2	47.0	47.9	47.9	49.2	50.6	52.3	54.1	57.2	60.7	65.9
77.5°	36.5	36.5	37.4	37.8	39.1	38.7	40.4	42.2	44.4	47.5	51.4
80°	26.8	27.7	27.7	27.7	28.1	28.6	30.3	31.7	33.0	35.2	36.9
82.5°	18.9	18.9	19.8	19.8	19.8	20.7	20.7	21.1	22.0	23.3	24.6
85°	11.9	11.9	11.9	12.3	11.9	12.3	13.2	12.8	13.2	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°	18.2	17.9	17.6	17.4	17.0	16.2	15.5	14.7	13.9	12.7	11.4
92.5°	18.5	18.3	18.2	18.1	17.9	17.6	17.3	17.0	16.7	16.2	15.8
95°	30.2	30.4	30.5	30.6	30.2	29.4	28.7	27.9	27.1	26.0	24.9
97.5°	37.9	37.7	37.6	37.5	37.3	36.8	36.3	35.9	35.4	32.9	30.5
100°	45.9	45.6	45.3	45.2	44.6	43.3	42.1	40.8	39.6	37.0	34.4
102.5°	49.8	49.3	48.8	48.6	47.8	46.1	44.4	42.7	41.0	39.1	37.2
105°	51.6	50.9	50.3	50.0	49.2	47.5	45.8	44.1	42.4	40.5	38.8
107.5°	53.0	52.3	51.7	51.4	50.6	48.9	47.2	45.5	43.8	42.1	40.4
110°	53.7	53.0	52.4	52.1	51.8	51.3	50.7	49.2	47.6	46.0	44.4

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	54.7	54.2	53.7	53.5	86.8	153.3	219.8	286.4	352.9	355.5	358.1
115°	79.2	90.3	101.4	107.0	142.7	214.2	285.7	357.1	428.6	424.7	420.9
117.5°	265.7	306.1	346.6	366.8	377.8	399.9	422.0	444.0	466.1	463.5	460.9
120°	465.4	486.2	507.1	517.5	516.6	514.7	512.9	511.0	509.2	506.4	503.6
122.5°	554.7	554.5	554.4	554.3	553.8	552.9	552.0	551.0	550.1	547.0	544.0
125°	593.0	592.5	592.0	591.8	591.3	590.2	589.1	588.1	587.0	584.1	581.1
127.5°	628.3	628.1	628.0	627.9	627.1	625.6	624.1	622.5	621.0	618.7	616.4
130°	660.9	661.1	661.2	661.3	660.4	658.7	657.0	655.3	653.6	651.9	650.2
132.5°	692.1	692.3	692.4	692.5	691.8	690.4	689.1	687.7	686.3	684.6	682.9
135°	722.3	722.6	722.9	723.1	722.3	720.8	719.3	717.7	716.2	714.8	713.4
137.5°	750.4	750.9	751.4	751.6	750.8	749.3	747.7	746.2	744.6	743.1	741.5
140°	776.8	777.5	778.3	778.7	778.0	776.6	775.2	773.8	772.4	770.7	769.0
142.5°	801.8	802.5	803.3	803.7	803.1	801.8	800.6	799.3	798.1	796.1	794.1
145°	824.7	825.4	826.2	826.6	826.1	825.0	823.9	822.8	821.7	819.1	816.5
147.5°	845.2	845.9	846.5	846.8	846.4	845.6	844.9	844.1	843.3	840.7	838.1
150°	864.3	865.0	865.8	866.2	865.7	864.8	863.9	862.9	862.0	859.5	857.1
152.5°	880.9	882.0	883.1	883.6	883.1	882.2	881.3	880.3	879.4	877.1	874.8
155°	895.7	897.0	898.2	898.8	898.3	897.4	896.5	895.6	894.7	892.8	891.0
157.5°	909.6	910.9	912.1	912.7	912.2	911.1	910.0	909.0	907.9	906.5	905.1
160°	921.2	922.3	923.4	923.9	923.4	922.5	921.6	920.6	919.7	918.8	917.8
162.5°	931.5	932.9	934.3	935.0	934.5	933.4	932.3	931.2	930.1	929.3	928.5
165°	940.6	941.7	942.8	943.3	942.8	941.7	940.6	939.5	938.4	938.0	937.5
167.5°	947.5	948.8	950.2	950.9	950.4	949.3	948.2	947.2	946.1	945.6	945.2
170°	953.1	954.4	955.8	956.5	956.0	954.9	953.8	952.7	951.6	951.3	951.0
172.5°	957.2	958.6	960.0	960.7	960.2	959.1	958.0	956.9	955.8	955.5	955.2
175°	959.6	961.1	962.6	963.4	962.9	961.8	960.7	959.7	958.6	958.3	958.0
177.5°	960.7	962.0	963.4	964.1	963.6	962.5	961.4	960.4	959.3	959.1	959.0
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	586.9	584.7	583.4	584.3	581.7	575.1	575.1	577.3	574.6	572.0	568.0
5°	603.2	598.8	596.2	595.7	589.6	579.0	576.8	574.6	568.9	562.8	556.2
7.5°	619.0	611.1	606.7	603.7	594.9	581.2	575.5	570.7	561.4	552.2	543.9
10°	632.2	620.8	615.5	610.7	599.3	582.1	572.9	564.1	552.2	540.3	529.8
12.5°	642.8	629.6	623.0	616.0	601.9	579.5	568.0	554.0	542.1	526.3	515.7
15°	660.4	633.1	627.0	620.4	605.9	575.1	561.0	545.2	528.9	507.8	496.4
17.5°	674.4	637.9	637.5	623.4	604.5	573.3	551.8	531.1	513.5	492.4	474.4
20°	682.8	645.4	638.4	623.9	600.1	561.4	539.0	516.2	497.3	471.8	453.7
22.5°	689.8	656.0	637.5	619.9	590.9	557.5	524.5	503.0	477.0	449.3	432.2
25°	692.5	658.2	638.8	618.6	584.3	546.1	508.7	485.4	456.4	431.3	408.0
27.5°	692.9	657.7	634.0	612.9	575.1	531.1	492.9	468.2	436.1	407.1	383.8
30°	688.5	652.9	631.4	608.5	566.3	517.5	473.5	446.3	412.0	382.9	358.8
32.5°	675.3	643.2	625.6	600.6	554.9	498.6	455.0	424.7	388.7	360.1	336.8
35°	653.3	631.4	612.0	588.7	539.9	481.0	436.6	401.0	364.5	337.2	315.2
37.5°	626.1	614.2	596.2	573.3	522.8	465.2	415.9	376.3	339.9	313.5	291.9
40°	589.1	592.2	574.6	554.0	502.5	443.6	389.1	351.3	317.0	292.4	271.3
42.5°	549.1	561.9	551.8	532.0	480.1	419.9	369.3	327.5	294.1	268.6	251.0
45°	506.0	528.0	521.9	507.4	456.8	394.8	341.2	300.7	271.3	246.6	231.3
47.5°	459.0	490.2	490.2	479.7	430.9	369.8	317.0	275.7	246.6	229.1	214.1
50°	411.1	446.3	452.0	444.9	401.8	341.2	287.5	250.2	225.1	208.0	197.0
52.5°	361.0	401.8	412.4	408.9	371.1	313.9	263.4	226.9	204.0	189.1	179.4
55°	313.0	360.5	372.0	373.3	338.1	284.0	236.5	204.4	182.5	172.3	164.0
57.5°	267.8	313.5	326.2	328.4	304.7	256.8	211.5	183.3	163.6	155.2	148.6
60°	229.1	267.3	284.0	288.9	268.2	225.1	188.2	160.9	146.0	138.1	131.9
62.5°	197.4	228.2	245.8	247.1	237.9	197.4	164.0	141.1	128.4	121.3	118.3
65°	166.6	194.3	204.9	210.2	202.7	171.0	141.6	122.7	112.6	106.4	103.3
67.5°	142.0	159.6	168.4	175.4	167.9	144.2	120.5	105.1	97.6	91.4	89.7
70°	116.5	131.0	137.6	144.6	138.1	120.0	102.9	88.8	82.2	77.4	75.2
72.5°	93.2	104.6	110.8	115.2	111.2	96.3	82.2	72.5	67.7	64.2	62.9
75°	73.9	81.8	85.3	88.4	86.6	75.2	66.4	58.5	54.1	51.0	50.1
77.5°	56.3	62.0	65.9	66.8	64.6	57.2	49.7	44.8	41.3	39.6	38.7
80°	40.0	43.5	45.7	47.0	44.8	41.8	36.5	33.0	29.9	27.7	27.3
82.5°	26.8	28.6	30.3	29.9	29.0	26.4	23.3	21.5	20.2	18.5	18.5
85°	15.4	15.8	16.7	17.1	16.7	14.9	13.2	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	4.0
90°	10.2	8.9	8.3	7.5	5.8	4.1	2.4	0.7	2.4	4.1	5.8
92.5°	15.3	14.8	14.6	14.9	15.5	16.2	16.8	17.4	16.8	16.2	15.5
95°	23.8	22.7	22.2	24.8	29.9	35.0	40.1	45.2	40.1	35.0	29.9
97.5°	28.0	25.5	24.3	30.6	43.3	56.0	68.6	81.3	68.6	56.0	43.3
100°	31.7	29.1	27.8	38.4	59.5	80.6	101.8	122.9	101.8	80.6	59.5
102.5°	125.3	153.4	167.4	167.6	167.9	168.2	168.5	168.8	168.5	168.2	167.9
105°	168.8	210.9	232.0	229.7	225.1	220.4	215.8	211.2	215.8	220.4	225.1
107.5°	199.9	251.9	277.9	276.0	272.1	268.2	264.4	260.5	264.4	268.2	272.1
110°	255.4	300.0	322.3	320.7	317.4	314.2	310.9	307.7	310.9	314.2	317.4

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	360.8	363.4	364.7	363.3	360.5	357.8	355.0	352.2	355.0	357.8	360.5
115°	417.0	413.1	411.2	409.9	407.3	404.6	402.0	399.4	402.0	404.6	407.3
117.5°	458.2	455.6	454.3	452.8	449.7	446.6	443.5	440.4	443.5	446.6	449.7
120°	500.9	498.1	496.7	495.5	493.2	490.9	488.5	486.2	488.5	490.9	493.2
122.5°	540.9	537.8	536.3	535.1	532.6	530.1	527.6	525.1	527.6	530.1	532.6
125°	578.2	575.3	573.8	572.8	570.8	568.7	566.7	564.7	566.7	568.7	570.8
127.5°	614.1	611.8	610.6	609.5	607.4	605.2	603.1	600.9	603.1	605.2	607.4
130°	648.5	646.8	646.0	644.8	642.3	639.8	637.4	634.9	637.4	639.8	642.3
132.5°	681.2	679.5	678.7	677.7	675.7	673.6	671.6	669.6	671.6	673.6	675.7
135°	712.0	710.6	709.9	708.7	706.2	703.7	701.3	698.8	701.3	703.7	706.2
137.5°	740.0	738.5	737.7	736.8	734.9	733.1	731.2	729.4	731.2	733.1	734.9
140°	767.3	765.6	764.8	764.2	762.9	761.7	760.4	759.2	760.4	761.7	762.9
142.5°	792.1	790.1	789.1	788.6	787.5	786.4	785.3	784.2	785.3	786.4	787.5
145°	813.8	811.2	809.9	810.0	810.1	810.3	810.4	810.6	810.4	810.3	810.1
147.5°	835.4	832.8	831.5	831.7	832.2	832.7	833.1	833.6	833.1	832.7	832.2
150°	854.6	852.1	850.9	851.4	852.5	853.6	854.7	855.8	854.7	853.6	852.5
152.5°	872.5	870.2	869.0	869.6	870.8	872.1	873.3	874.5	873.3	872.1	870.8
155°	889.1	887.2	886.3	887.0	888.4	889.8	891.2	892.6	891.2	889.8	888.4
157.5°	903.7	902.3	901.6	902.2	903.5	904.7	906.0	907.2	906.0	904.7	903.5
160°	916.9	916.0	915.5	916.0	916.9	917.8	918.8	919.7	918.8	917.8	916.9
162.5°	927.8	927.0	926.6	927.1	928.0	928.9	929.9	930.8	929.9	928.9	928.0
165°	937.1	936.6	936.4	936.9	937.8	938.7	939.6	940.5	939.6	938.7	937.8
167.5°	944.7	944.2	944.0	944.5	945.4	946.3	947.3	948.2	947.3	946.3	945.4
170°	950.7	950.4	950.3	950.8	951.7	952.6	953.5	954.4	953.5	952.6	951.7
172.5°	954.9	954.6	954.4	954.9	955.8	956.7	957.7	958.6	957.7	956.7	955.8
175°	957.7	957.4	957.2	957.7	958.8	959.9	961.0	962.1	961.0	959.9	958.8
177.5°	958.8	958.7	958.6	959.1	960.2	961.3	962.3	963.4	962.3	961.3	960.2
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	565.8	568.0	567.6	563.2	558.4	554.4	546.9	547.8	545.2	545.6	548.3
5°	551.8	551.8	550.0	543.9	535.9	531.5	523.2	521.0	515.7	515.3	514.8
7.5°	536.8	534.6	532.4	523.6	514.0	506.9	495.5	492.9	487.6	484.1	482.3
10°	519.2	516.2	511.8	501.7	489.8	481.0	469.1	465.6	455.5	451.1	448.5
12.5°	499.9	498.1	491.1	482.7	463.4	453.7	436.6	440.1	430.0	421.2	419.9
15°	480.5	474.0	470.0	456.4	433.1	428.7	415.0	408.0	398.8	391.7	391.7
17.5°	461.6	451.5	442.7	428.2	411.1	398.8	388.7	385.1	373.7	366.7	365.4
20°	436.6	425.2	423.0	402.3	390.4	376.8	367.1	358.3	350.0	346.9	344.7
22.5°	412.8	399.7	396.1	378.5	366.7	353.0	343.4	337.2	331.1	328.9	324.9
25°	387.3	379.4	374.2	355.2	342.1	329.3	322.7	318.3	312.6	312.2	309.5
27.5°	362.7	355.2	350.0	331.9	322.3	310.4	305.1	300.3	297.2	295.9	294.6
30°	341.6	333.3	327.1	313.9	302.0	292.4	288.0	284.9	283.1	280.9	280.5
32.5°	318.3	313.5	305.1	295.0	285.8	276.5	273.9	271.7	269.1	268.2	267.8
35°	298.5	291.9	286.7	275.2	271.3	263.4	260.3	258.5	255.0	254.1	253.2
37.5°	279.2	273.0	267.3	260.3	252.8	248.4	246.6	244.0	242.3	242.7	241.8
40°	259.8	255.0	250.6	243.1	238.7	236.5	233.0	230.4	229.5	229.9	229.5
42.5°	240.9	236.5	233.9	228.2	223.8	221.6	219.4	216.8	218.1	218.1	219.4
45°	223.8	219.8	218.1	213.7	211.0	207.5	205.3	204.9	206.6	206.2	206.2
47.5°	206.2	204.9	202.7	198.7	195.2	193.0	192.6	192.6	194.3	195.2	194.8
50°	192.6	189.9	187.3	184.2	181.6	180.7	179.4	180.3	182.0	182.0	182.9
52.5°	175.4	173.7	172.8	170.1	168.4	168.4	168.4	168.8	170.1	171.5	171.0
55°	160.5	159.2	158.3	157.0	154.8	155.2	154.8	155.6	157.0	158.3	159.2
57.5°	144.6	144.2	143.3	141.1	141.1	140.7	142.0	142.4	144.6	145.5	146.8
60°	130.6	129.3	129.3	127.5	127.5	127.5	128.8	130.1	131.9	132.3	133.2
62.5°	115.6	115.6	115.2	113.9	113.9	115.2	115.6	117.4	118.3	118.3	119.6
65°	101.6	101.1	100.7	101.1	101.6	101.6	102.9	103.8	104.6	105.1	105.5
67.5°	87.5	87.1	87.9	87.5	88.4	90.1	89.7	91.0	92.3	92.3	92.8
70°	74.3	75.2	74.7	75.6	75.2	76.1	77.4	77.8	77.8	78.3	79.6
72.5°	62.0	62.0	62.0	61.6	62.0	62.9	63.8	64.2	65.1	65.5	66.8
75°	50.1	50.1	49.2	50.1	50.1	51.0	51.9	51.9	51.9	52.8	54.1
77.5°	37.8	38.3	37.8	38.7	38.7	39.1	40.0	39.6	40.4	40.9	41.3
80°	27.7	27.3	27.3	27.3	27.7	27.7	28.6	29.0	29.0	30.3	29.5
82.5°	17.6	18.0	17.6	18.0	18.0	18.5	18.0	18.5	18.9	19.8	19.3
85°	10.1	9.7	9.7	10.1	9.7	9.7	10.1	9.7	10.1	9.7	10.1
87.5°	4.0	3.5	3.5	3.5	3.5	3.1	3.1	2.6	2.6	2.6	2.2
90°	7.5	8.3	8.9	10.2	11.4	12.7	13.9	14.7	15.5	16.2	17.0
92.5°	14.9	14.6	14.8	15.3	15.8	16.2	16.7	17.0	17.3	17.6	17.9
95°	24.8	22.2	22.7	23.8	24.9	26.0	27.1	27.9	28.7	29.4	30.2
97.5°	30.6	24.3	25.5	28.0	30.5	32.9	35.4	35.9	36.3	36.8	37.3
100°	38.4	27.8	29.1	31.7	34.4	37.0	39.6	40.8	42.1	43.3	44.6
102.5°	167.6	167.4	153.4	125.3	97.2	69.1	41.0	42.7	44.4	46.1	47.8
105°	229.7	232.0	210.9	168.8	126.7	84.5	42.4	44.1	45.8	47.5	49.2
107.5°	276.0	277.9	251.9	199.9	147.8	95.8	43.8	45.5	47.2	48.9	50.6
110°	320.7	322.3	300.0	255.4	210.8	166.2	121.6	106.2	90.7	75.3	59.8

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	363.3	364.7	363.4	360.8	358.1	355.5	352.9	286.4	219.8	153.3	86.8
115°	409.9	411.2	413.1	417.0	420.9	424.7	428.6	357.1	285.7	214.2	142.7
117.5°	452.8	454.3	455.6	458.2	460.9	463.5	466.1	444.0	422.0	399.9	377.8
120°	495.5	496.7	498.1	500.9	503.6	506.4	509.2	511.0	512.9	514.7	516.6
122.5°	535.1	536.3	537.8	540.9	544.0	547.0	550.1	551.0	552.0	552.9	553.8
125°	572.8	573.8	575.3	578.2	581.1	584.1	587.0	588.1	589.1	590.2	591.3
127.5°	609.5	610.6	611.8	614.1	616.4	618.7	621.0	622.5	624.1	625.6	627.1
130°	644.8	646.0	646.8	648.5	650.2	651.9	653.6	655.3	657.0	658.7	660.4
132.5°	677.7	678.7	679.5	681.2	682.9	684.6	686.3	687.7	689.1	690.4	691.8
135°	708.7	709.9	710.6	712.0	713.4	714.8	716.2	717.7	719.3	720.8	722.3
137.5°	736.8	737.7	738.5	740.0	741.5	743.1	744.6	746.2	747.7	749.3	750.8
140°	764.2	764.8	765.6	767.3	769.0	770.7	772.4	773.8	775.2	776.6	778.0
142.5°	788.6	789.1	790.1	792.1	794.1	796.1	798.1	799.3	800.6	801.8	803.1
145°	810.0	809.9	811.2	813.8	816.5	819.1	821.7	822.8	823.9	825.0	826.1
147.5°	831.7	831.5	832.8	835.4	838.1	840.7	843.3	844.1	844.9	845.6	846.4
150°	851.4	850.9	852.1	854.6	857.1	859.5	862.0	862.9	863.9	864.8	865.7
152.5°	869.6	869.0	870.2	872.5	874.8	877.1	879.4	880.3	881.3	882.2	883.1
155°	887.0	886.3	887.2	889.1	891.0	892.8	894.7	895.6	896.5	897.4	898.3
157.5°	902.2	901.6	902.3	903.7	905.1	906.5	907.9	909.0	910.0	911.1	912.2
160°	916.0	915.5	916.0	916.9	917.8	918.8	919.7	920.6	921.6	922.5	923.4
162.5°	927.1	926.6	927.0	927.8	928.5	929.3	930.1	931.2	932.3	933.4	934.5
165°	936.9	936.4	936.6	937.1	937.5	938.0	938.4	939.5	940.6	941.7	942.8
167.5°	944.5	944.0	944.2	944.7	945.2	945.6	946.1	947.2	948.2	949.3	950.4
170°	950.8	950.3	950.4	950.7	951.0	951.3	951.6	952.7	953.8	954.9	956.0
172.5°	954.9	954.4	954.6	954.9	955.2	955.5	955.8	956.9	958.0	959.1	960.2
175°	957.7	957.2	957.4	957.7	958.0	958.3	958.6	959.7	960.7	961.8	962.9
177.5°	959.1	958.6	958.7	958.8	959.0	959.1	959.3	960.4	961.4	962.5	963.6
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	545.2	546.5	543.4	542.5	543.4	540.3	541.2	542.1	542.1	543.4	544.3
5°	513.5	511.8	508.7	507.8	506.9	508.2	507.4	508.7	509.1	512.2	512.6
7.5°	482.3	479.7	477.0	474.4	473.5	471.3	473.5	473.5	476.6	475.7	477.9
10°	445.4	444.9	441.4	440.1	438.3	434.8	439.7	438.3	440.5	444.5	445.4
12.5°	418.1	413.3	415.5	409.3	411.5	408.0	408.4	408.4	412.0	412.4	411.5
15°	392.2	388.2	382.5	379.9	378.5	376.8	382.5	382.9	380.3	386.5	384.3
17.5°	365.8	365.8	360.5	359.2	355.7	357.4	356.6	357.0	356.1	360.5	362.7
20°	342.9	340.7	339.0	339.4	335.0	334.1	333.3	334.1	337.2	340.3	341.2
22.5°	324.5	323.1	318.8	319.6	316.1	317.4	316.6	318.8	319.2	319.2	322.3
25°	306.9	305.1	305.6	303.8	302.5	302.5	301.2	302.5	304.2	305.1	305.6
27.5°	293.7	292.4	290.2	288.9	289.7	287.5	289.3	290.6	290.6	289.7	290.6
30°	277.9	278.7	278.7	274.3	276.1	275.2	276.5	277.4	277.4	277.9	277.0
32.5°	267.3	264.7	264.2	263.8	263.8	262.0	262.0	263.4	263.8	264.2	265.6
35°	253.2	253.2	251.0	252.4	250.6	251.0	250.6	251.0	251.9	250.6	251.9
37.5°	240.5	240.9	240.1	240.9	241.4	240.5	239.6	241.4	240.5	240.5	239.6
40°	229.5	229.1	229.5	229.5	229.5	229.9	229.1	229.1	229.1	228.2	227.3
42.5°	220.3	217.6	218.5	219.0	217.6	217.6	218.1	217.6	219.0	216.3	216.3
45°	207.1	206.2	206.6	206.6	207.5	206.2	207.1	207.5	206.2	205.8	204.9
47.5°	195.2	196.1	195.2	196.1	196.1	197.0	195.2	195.6	196.1	194.3	193.0
50°	183.3	183.3	184.7	184.2	184.7	183.8	183.8	183.3	183.8	182.9	181.6
52.5°	172.3	171.0	173.2	172.8	172.3	171.9	171.5	171.9	171.0	170.1	170.1
55°	158.7	158.7	160.0	160.5	160.5	159.6	158.7	159.2	158.7	158.3	157.8
57.5°	147.7	146.0	146.8	147.3	147.3	146.0	146.8	146.0	146.0	146.4	145.1
60°	133.7	133.7	132.8	134.1	134.1	133.2	133.2	133.7	132.8	132.3	131.9
62.5°	118.7	119.1	120.5	120.9	121.3	120.5	119.6	120.0	120.0	118.7	119.1
65°	106.0	106.8	108.6	108.2	107.3	107.7	106.8	107.3	106.0	106.4	105.1
67.5°	93.6	93.2	93.6	93.6	94.5	94.1	93.2	93.2	92.8	94.1	92.8
70°	80.5	80.5	80.5	80.5	80.9	81.3	80.5	79.6	80.0	79.1	78.7
72.5°	66.8	67.3	66.8	67.7	66.4	67.3	67.3	66.8	66.4	66.4	66.4
75°	54.1	55.0	53.6	54.1	53.6	54.5	54.1	54.1	53.2	52.8	53.2
77.5°	41.3	41.8	40.9	41.3	40.9	41.3	41.3	40.9	40.9	40.9	40.9
80°	29.5	29.9	29.5	29.0	28.6	29.5	28.6	29.0	29.5	29.0	29.9
82.5°	18.9	18.9	18.5	18.9	18.0	18.0	18.5	18.5	18.0	18.9	18.0
85°	9.2	9.2	10.1	9.2	8.8	8.8	8.8	9.2	8.8	9.7	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°	17.4	17.6	17.9	18.2	18.5	18.8	18.5	18.2	17.9	17.6	17.4
92.5°	18.1	18.2	18.3	18.5	18.6	18.8	18.6	18.5	18.3	18.2	18.1
95°	30.6	30.5	30.4	30.2	30.1	29.9	30.1	30.2	30.4	30.5	30.6
97.5°	37.5	37.6	37.7	37.9	38.0	38.2	38.0	37.9	37.7	37.6	37.5
100°	45.2	45.3	45.6	45.9	46.2	46.5	46.2	45.9	45.6	45.3	45.2
102.5°	48.6	48.8	49.3	49.8	50.2	50.7	50.2	49.8	49.3	48.8	48.6
105°	50.0	50.3	50.9	51.6	52.2	52.8	52.2	51.6	50.9	50.3	50.0
107.5°	51.4	51.7	52.3	53.0	53.6	54.2	53.6	53.0	52.3	51.7	51.4
110°	52.1	52.4	53.0	53.7	54.3	54.9	54.3	53.7	53.0	52.4	52.1

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	53.5	53.7	54.2	54.7	55.1	55.6	55.1	54.7	54.2	53.7	53.5
115°	107.0	101.4	90.3	79.2	68.1	57.0	68.1	79.2	90.3	101.4	107.0
117.5°	366.8	346.6	306.1	265.7	225.2	184.8	225.2	265.7	306.1	346.6	366.8
120°	517.5	507.1	486.2	465.4	444.5	423.7	444.5	465.4	486.2	507.1	517.5
122.5°	554.3	554.4	554.5	554.7	554.8	555.0	554.8	554.7	554.5	554.4	554.3
125°	591.8	592.0	592.5	593.0	593.4	593.9	593.4	593.0	592.5	592.0	591.8
127.5°	627.9	628.0	628.1	628.3	628.4	628.6	628.4	628.3	628.1	628.0	627.9
130°	661.3	661.2	661.1	660.9	660.8	660.6	660.8	660.9	661.1	661.2	661.3
132.5°	692.5	692.4	692.3	692.1	692.0	691.8	692.0	692.1	692.3	692.4	692.5
135°	723.1	722.9	722.6	722.3	722.0	721.7	722.0	722.3	722.6	722.9	723.1
137.5°	751.6	751.4	750.9	750.4	750.0	749.5	750.0	750.4	750.9	751.4	751.6
140°	778.7	778.3	777.5	776.8	776.0	775.2	776.0	776.8	777.5	778.3	778.7
142.5°	803.7	803.3	802.5	801.8	801.0	800.2	801.0	801.8	802.5	803.3	803.7
145°	826.6	826.2	825.4	824.7	823.9	823.1	823.9	824.7	825.4	826.2	826.6
147.5°	846.8	846.5	845.9	845.2	844.6	844.0	844.6	845.2	845.9	846.5	846.8
150°	866.2	865.8	865.0	864.3	863.5	862.7	863.5	864.3	865.0	865.8	866.2
152.5°	883.6	883.1	882.0	880.9	879.8	878.7	879.8	880.9	882.0	883.1	883.6
155°	898.8	898.2	897.0	895.7	894.5	893.3	894.5	895.7	897.0	898.2	898.8
157.5°	912.7	912.1	910.9	909.6	908.4	907.2	908.4	909.6	910.9	912.1	912.7
160°	923.9	923.4	922.3	921.2	920.1	919.0	920.1	921.2	922.3	923.4	923.9
162.5°	935.0	934.3	932.9	931.5	930.1	928.7	930.1	931.5	932.9	934.3	935.0
165°	943.3	942.8	941.7	940.6	939.5	938.4	939.5	940.6	941.7	942.8	943.3
167.5°	950.9	950.2	948.8	947.5	946.1	944.7	946.1	947.5	948.8	950.2	950.9
170°	956.5	955.8	954.4	953.1	951.7	950.3	951.7	953.1	954.4	955.8	956.5
172.5°	960.7	960.0	958.6	957.2	955.8	954.4	955.8	957.2	958.6	960.0	960.7
175°	963.4	962.6	961.1	959.6	958.0	956.5	958.0	959.6	961.1	962.6	963.4
177.5°	964.1	963.4	962.0	960.7	959.3	957.9	959.3	960.7	962.0	963.4	964.1
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0	572.0
2.5°	543.0	546.5	545.2	540.3	546.1	546.1	550.0	550.0	554.9	556.6	559.2
5°	512.2	514.8	517.0	514.8	518.8	525.0	528.5	531.5	538.1	540.8	544.7
7.5°	479.2	484.1	486.3	486.3	492.9	499.9	506.9	511.3	520.6	524.1	528.0
10°	447.1	452.8	457.2	456.8	467.8	472.2	481.0	491.1	500.3	505.6	511.3
12.5°	413.3	416.4	422.5	431.3	433.9	441.9	452.0	464.7	481.4	486.3	494.6
15°	385.1	393.5	398.3	402.3	408.4	415.9	426.9	439.2	455.9	466.5	475.3
17.5°	361.4	372.4	375.5	374.6	382.5	393.9	406.7	415.9	430.9	443.6	452.0
20°	342.1	346.5	351.7	353.9	360.1	372.4	384.7	395.3	407.6	417.7	427.3
22.5°	322.7	326.2	330.6	334.6	339.4	346.5	358.3	371.5	383.4	393.1	404.0
25°	306.9	309.1	313.0	316.1	321.4	326.2	334.6	349.1	363.2	368.9	378.5
27.5°	291.5	293.3	295.9	299.4	302.0	306.9	314.4	326.2	340.7	346.5	359.6
30°	277.9	279.2	281.8	283.6	284.9	290.6	296.3	305.6	316.6	324.5	334.1
32.5°	265.1	266.4	269.1	269.5	271.3	274.3	279.6	288.0	297.6	304.2	312.6
35°	251.0	251.9	254.6	255.4	256.8	259.4	263.4	269.5	278.3	283.1	290.6
37.5°	240.1	239.6	241.4	242.7	244.5	245.8	247.1	253.2	259.8	264.2	270.0
40°	228.2	227.3	227.7	229.5	230.4	232.1	232.1	238.3	242.7	246.2	250.6
42.5°	216.3	215.9	215.0	215.9	216.8	217.2	217.6	222.0	226.4	229.5	234.3
45°	204.4	204.0	203.1	203.6	203.6	204.4	205.8	207.5	210.6	213.2	215.9
47.5°	193.5	192.6	191.3	190.8	191.7	191.7	191.7	193.5	196.5	197.4	200.0
50°	182.0	180.7	178.9	178.1	178.1	177.6	178.5	178.9	181.6	182.5	184.7
52.5°	169.7	168.8	167.1	165.3	165.8	164.9	165.3	165.8	166.6	167.9	169.3
55°	157.4	155.6	154.3	153.9	152.6	152.6	151.2	153.0	152.6	153.0	154.8
57.5°	145.5	143.8	141.6	140.7	139.4	138.9	138.1	137.6	138.1	139.4	140.7
60°	131.5	130.6	129.3	127.9	127.1	125.7	124.9	124.9	124.4	124.4	124.9
62.5°	117.8	117.4	115.6	115.2	114.3	113.4	112.1	111.2	111.2	112.1	112.6
65°	104.6	104.2	102.9	102.4	100.2	99.4	98.9	98.5	97.6	97.6	97.6
67.5°	92.3	91.0	91.0	88.8	87.1	86.2	85.3	84.9	84.9	84.9	85.3
70°	78.7	78.7	77.4	76.1	74.3	74.7	73.4	72.1	72.1	71.2	71.7
72.5°	65.5	65.1	63.8	63.3	62.0	60.7	59.8	60.7	59.4	58.9	59.4
75°	52.8	52.3	51.4	50.6	51.0	49.7	48.4	47.9	47.9	47.0	47.0
77.5°	40.4	41.3	39.6	39.1	38.3	37.4	36.9	36.5	36.5	36.5	37.4
80°	28.1	28.6	28.6	27.7	28.1	26.8	26.8	26.8	25.5	25.9	26.4
82.5°	18.0	18.0	17.6	18.0	17.6	17.6	17.1	17.1	16.7	16.7	17.1
85°	10.1	9.7	9.2	10.1	9.7	9.7	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°	17.0	16.2	15.5	14.7	13.9	12.7	11.4	10.2	8.9	8.3	7.5
92.5°	17.9	17.6	17.3	17.0	16.7	16.2	15.8	15.3	14.8	14.6	14.9
95°	30.2	29.4	28.7	27.9	27.1	26.0	24.9	23.8	22.7	22.2	24.8
97.5°	37.3	36.8	36.3	35.9	35.4	32.9	30.5	28.0	25.5	24.3	30.6
100°	44.6	43.3	42.1	40.8	39.6	37.0	34.4	31.7	29.1	27.8	38.4
102.5°	47.8	46.1	44.4	42.7	41.0	69.1	97.2	125.3	153.4	167.4	167.6
105°	49.2	47.5	45.8	44.1	42.4	84.5	126.7	168.8	210.9	232.0	229.7
107.5°	50.6	48.9	47.2	45.5	43.8	95.8	147.8	199.9	251.9	277.9	276.0
110°	59.8	75.3	90.7	106.2	121.6	166.2	210.8	255.4	300.0	322.3	320.7

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	86.8	153.3	219.8	286.4	352.9	355.5	358.1	360.8	363.4	364.7	363.3
115°	142.7	214.2	285.7	357.1	428.6	424.7	420.9	417.0	413.1	411.2	409.9
117.5°	377.8	399.9	422.0	444.0	466.1	463.5	460.9	458.2	455.6	454.3	452.8
120°	516.6	514.7	512.9	511.0	509.2	506.4	503.6	500.9	498.1	496.7	495.5
122.5°	553.8	552.9	552.0	551.0	550.1	547.0	544.0	540.9	537.8	536.3	535.1
125°	591.3	590.2	589.1	588.1	587.0	584.1	581.1	578.2	575.3	573.8	572.8
127.5°	627.1	625.6	624.1	622.5	621.0	618.7	616.4	614.1	611.8	610.6	609.5
130°	660.4	658.7	657.0	655.3	653.6	651.9	650.2	648.5	646.8	646.0	644.8
132.5°	691.8	690.4	689.1	687.7	686.3	684.6	682.9	681.2	679.5	678.7	677.7
135°	722.3	720.8	719.3	717.7	716.2	714.8	713.4	712.0	710.6	709.9	708.7
137.5°	750.8	749.3	747.7	746.2	744.6	743.1	741.5	740.0	738.5	737.7	736.8
140°	778.0	776.6	775.2	773.8	772.4	770.7	769.0	767.3	765.6	764.8	764.2
142.5°	803.1	801.8	800.6	799.3	798.1	796.1	794.1	792.1	790.1	789.1	788.6
145°	826.1	825.0	823.9	822.8	821.7	819.1	816.5	813.8	811.2	809.9	810.0
147.5°	846.4	845.6	844.9	844.1	843.3	840.7	838.1	835.4	832.8	831.5	831.7
150°	865.7	864.8	863.9	862.9	862.0	859.5	857.1	854.6	852.1	850.9	851.4
152.5°	883.1	882.2	881.3	880.3	879.4	877.1	874.8	872.5	870.2	869.0	869.6
155°	898.3	897.4	896.5	895.6	894.7	892.8	891.0	889.1	887.2	886.3	887.0
157.5°	912.2	911.1	910.0	909.0	907.9	906.5	905.1	903.7	902.3	901.6	902.2
160°	923.4	922.5	921.6	920.6	919.7	918.8	917.8	916.9	916.0	915.5	916.0
162.5°	934.5	933.4	932.3	931.2	930.1	929.3	928.5	927.8	927.0	926.6	927.1
165°	942.8	941.7	940.6	939.5	938.4	938.0	937.5	937.1	936.6	936.4	936.9
167.5°	950.4	949.3	948.2	947.2	946.1	945.6	945.2	944.7	944.2	944.0	944.5
170°	956.0	954.9	953.8	952.7	951.6	951.3	951.0	950.7	950.4	950.3	950.8
172.5°	960.2	959.1	958.0	956.9	955.8	955.5	955.2	954.9	954.6	954.4	954.9
175°	962.9	961.8	960.7	959.7	958.6	958.3	958.0	957.7	957.4	957.2	957.7
177.5°	963.6	962.5	961.4	960.4	959.3	959.1	959.0	958.8	958.7	958.6	959.1
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	572.0	572.0	572.0	572.0
2.5°	561.4	561.4	568.0	575.1
5°	549.1	552.2	562.8	572.4
7.5°	537.3	542.5	555.7	568.0
10°	522.8	529.8	546.1	560.6
12.5°	508.7	515.3	534.2	550.5
15°	488.9	497.3	517.5	537.7
17.5°	469.1	477.5	502.1	525.8
20°	445.8	456.8	484.5	516.2
22.5°	424.3	437.9	468.7	494.2
25°	400.5	421.6	450.2	483.2
27.5°	379.4	400.5	429.5	463.0
30°	355.7	377.2	407.1	437.9
32.5°	332.8	352.6	381.6	419.4
35°	309.1	328.0	356.1	394.4
37.5°	287.5	306.0	336.8	372.0
40°	266.4	285.8	312.2	347.3
42.5°	246.6	263.8	287.5	322.7
45°	228.6	240.9	262.9	295.9
47.5°	209.7	220.7	240.9	273.9
50°	192.1	201.4	219.0	249.7
52.5°	175.0	182.9	199.2	223.8
55°	159.6	167.1	178.9	203.1
57.5°	143.8	149.5	160.9	180.3
60°	128.4	133.7	142.9	158.7
62.5°	113.0	117.4	126.2	138.9
65°	99.4	102.9	109.5	120.5
67.5°	86.2	88.4	93.6	102.4
70°	73.4	75.2	79.6	86.6
72.5°	59.8	61.6	66.4	71.2
75°	48.4	48.8	52.3	56.3
77.5°	37.8	37.4	40.0	43.1
80°	25.9	27.3	29.5	30.8
82.5°	17.6	18.0	18.9	19.8
85°	9.7	10.1	10.1	11.4
87.5°	4.0	4.4	4.4	4.8
90°	5.8	4.1	2.4	0.7
92.5°	15.5	16.2	16.8	17.4
95°	29.9	35.0	40.1	45.2
97.5°	43.3	56.0	68.6	81.3
100°	59.5	80.6	101.8	122.9
102.5°	167.9	168.2	168.5	168.8
105°	225.1	220.4	215.8	211.2
107.5°	272.1	268.2	264.4	260.5
110°	317.4	314.2	310.9	307.7

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	360.5	357.8	355.0	352.2
115°	407.3	404.6	402.0	399.4
117.5°	449.7	446.6	443.5	440.4
120°	493.2	490.9	488.5	486.2
122.5°	532.6	530.1	527.6	525.1
125°	570.8	568.7	566.7	564.7
127.5°	607.4	605.2	603.1	600.9
130°	642.3	639.8	637.4	634.9
132.5°	675.7	673.6	671.6	669.6
135°	706.2	703.7	701.3	698.8
137.5°	734.9	733.1	731.2	729.4
140°	762.9	761.7	760.4	759.2
142.5°	787.5	786.4	785.3	784.2
145°	810.1	810.3	810.4	810.6
147.5°	832.2	832.7	833.1	833.6
150°	852.5	853.6	854.7	855.8
152.5°	870.8	872.1	873.3	874.5
155°	888.4	889.8	891.2	892.6
157.5°	903.5	904.7	906.0	907.2
160°	916.9	917.8	918.8	919.7
162.5°	928.0	928.9	929.9	930.8
165°	937.8	938.7	939.6	940.5
167.5°	945.4	946.3	947.3	948.2
170°	951.7	952.6	953.5	954.4
172.5°	955.8	956.7	957.7	958.6
175°	958.8	959.9	961.0	962.1
177.5°	960.2	961.3	962.3	963.4
180°	960.0	960.0	960.0	960.0

TEST NUMBER: P998270

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_4000K

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	11.40	12.09	12.51	13.20	14.72	8.89	9.59	10.00	10.69	12.21
	3H	12.20	12.82	13.32	13.93	15.47	10.23	10.85	11.34	11.96	13.49
	4H	12.36	12.95	13.49	14.06	15.60	10.68	11.27	11.81	12.38	13.92
	6H	12.40	12.94	13.53	14.05	15.61	10.98	11.52	12.12	12.63	14.19
	8H	12.37	12.89	13.51	14.02	15.56	11.06	11.57	12.20	12.70	14.25
	12H	12.33	12.82	13.47	13.94	15.51	11.09	11.58	12.24	12.71	14.28
4H	2H	11.42	12.01	12.56	13.12	14.66	9.32	9.91	10.45	11.02	12.56
	3H	12.39	12.88	13.53	14.01	15.57	10.76	11.26	11.91	12.39	13.95
	4H	12.66	13.11	13.80	14.23	15.81	11.29	11.74	12.44	12.87	14.45
	6H	12.78	13.16	13.93	14.31	15.88	11.66	12.05	12.81	13.20	14.76
	8H	12.77	13.13	13.92	14.27	15.86	11.77	12.13	12.92	13.27	14.85
	12H	12.73	13.06	13.90	14.21	15.80	11.82	12.15	12.98	13.30	14.89
8H	4H	12.65	13.01	13.80	14.15	15.74	11.42	11.78	12.57	12.92	14.51
	6H	12.83	13.12	14.00	14.31	15.89	11.85	12.15	13.02	13.33	14.91
	8H	12.86	13.11	14.03	14.28	15.88	12.00	12.26	13.18	13.42	15.02
	12H	12.83	13.06	14.01	14.22	15.85	12.09	12.31	13.26	13.47	15.11
12H	4H	12.60	12.93	13.77	14.08	15.67	11.39	11.72	12.55	12.87	14.46
	6H	12.80	13.06	13.98	14.23	15.83	11.85	12.11	13.03	13.27	14.87
	8H	12.83	13.06	14.01	14.22	15.85	12.00	12.23	13.18	13.39	15.02