

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: P998267

Luminaire Tested: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998267
REPORT IS A COMBINATION OF REPORTS P984007 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D725UB2750-4F0-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

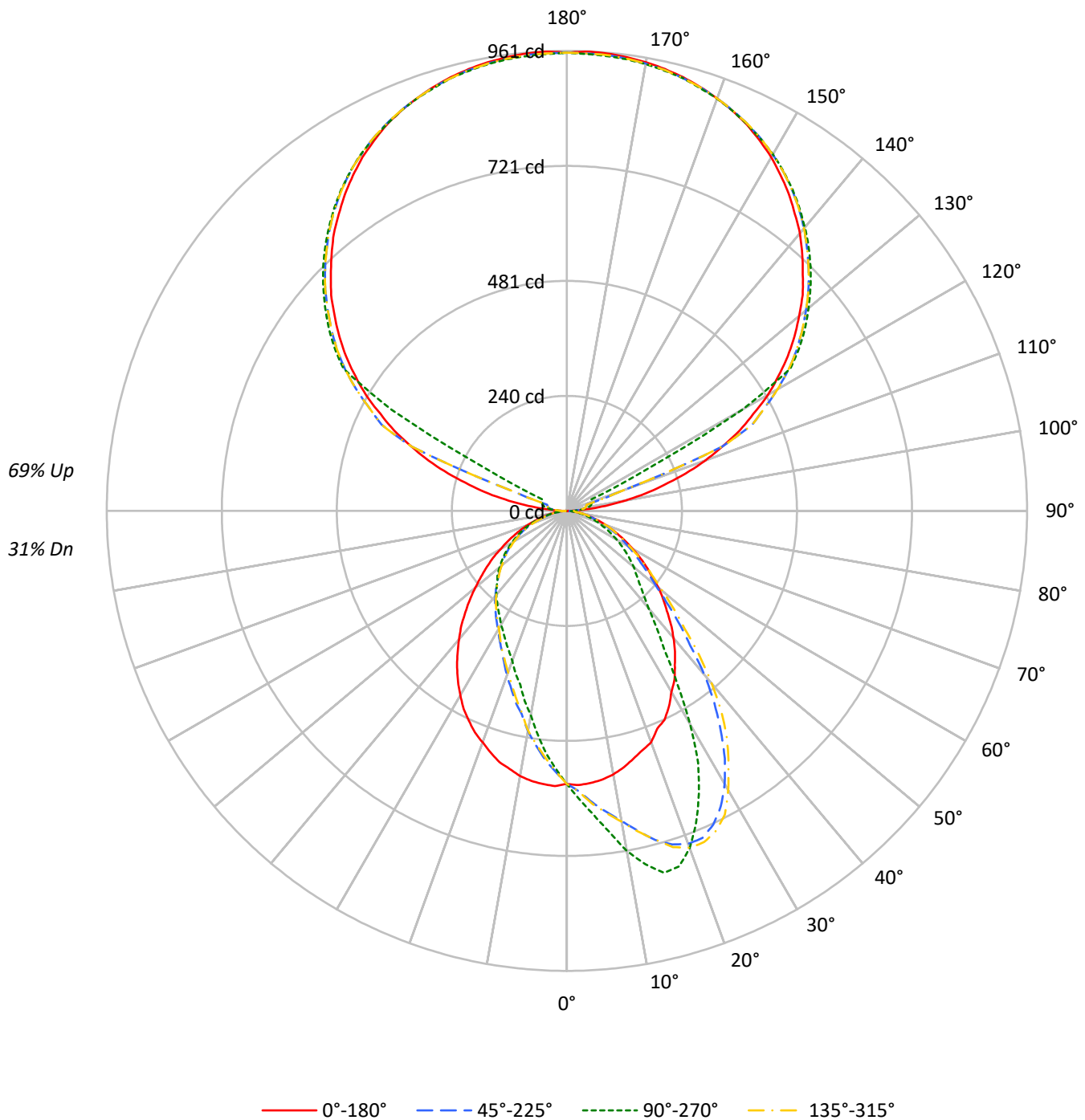
Lumens per Lamp: N/A
Luminaire Lumens: 4066.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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	1.3
10°-20°	158.1	3.9
20°-30°	229.4	5.6
30°-40°	241.8	5.9
40°-50°	214.0	5.3
50°-60°	170.9	4.2
60°-70°	116.1	2.9
70°-80°	59.4	1.5
80°-90°	15.7	0.4
90°-100°	31.6	0.8
100°-110°	117.7	2.9
110°-120°	312.1	7.7
120°-130°	517.6	12.7
130°-140°	549.8	13.5
140°-150°	511.0	12.6
150°-160°	410.8	10.1
160°-170°	264.7	6.5
170°-180°	91.1	2.2
0°-30°	441.8	10.9
0°-40°	683.6	16.8
0°-60°	1068.5	26.3
0°-90°	1259.7	31.0
90°-120°	461.3	11.3
90°-150°	2039.7	50.2
90°-180°	2806.0	69.0
0°-180°	4066.0	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°	1	19	1	19	1	3
95°	45	30	45	30	45	53
105°	211	53	211	53	211	225
115°	398	57	398	57	398	392
125°	563	592	563	592	563	502
135°	697	720	697	720	697	538
145°	808	821	808	821	808	506
155°	890	891	890	891	890	410
165°	938	936	938	936	938	265
175°	959	954	959	954	959	91
180°	957	957	957	957	957	

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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°	0.7	2.4	4.1	5.8	7.5	8.3	8.9	10.2	11.4	12.7	13.9
92.5°	17.3	16.7	16.1	15.4	14.8	14.5	14.7	15.2	15.7	16.1	16.6
95°	45.0	39.9	34.9	29.8	24.7	22.2	22.7	23.8	24.9	25.9	27.0
97.5°	81.0	68.4	55.8	43.1	30.5	24.2	25.4	27.9	30.4	32.8	35.3
100°	122.6	101.5	80.4	59.3	38.2	27.7	29.0	31.6	34.3	36.9	39.5
102.5°	168.3	168.0	167.7	167.4	167.1	166.9	152.9	124.9	96.9	68.9	40.9
105°	210.6	215.2	219.8	224.4	229.0	231.3	210.3	168.3	126.3	84.3	42.3
107.5°	259.7	263.6	267.4	271.3	275.2	277.1	251.2	199.3	147.4	95.5	43.6
110°	306.8	310.0	313.3	316.5	319.8	321.4	299.2	254.7	210.2	165.7	121.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	351.2	354.0	356.7	359.5	362.2	363.6	362.3	359.7	357.1	354.5	351.9
115°	398.3	400.9	403.5	406.2	408.8	410.1	412.0	415.9	419.7	423.6	427.4
117.5°	439.1	442.2	445.3	448.4	451.5	453.0	454.3	456.9	459.6	462.2	464.8
120°	484.9	487.2	489.5	491.8	494.1	495.2	496.6	499.4	502.1	504.9	507.7
122.5°	523.6	526.1	528.5	531.0	533.5	534.7	536.2	539.3	542.4	545.5	548.6
125°	563.1	565.1	567.1	569.1	571.1	572.1	573.6	576.5	579.4	582.4	585.3
127.5°	599.1	601.3	603.4	605.6	607.7	608.8	610.0	612.3	614.6	616.9	619.2
130°	633.1	635.6	638.0	640.5	643.0	644.2	645.0	646.7	648.4	650.1	651.8
132.5°	667.7	669.7	671.7	673.7	675.7	676.7	677.5	679.2	680.9	682.6	684.3
135°	696.8	699.3	701.7	704.2	706.7	707.9	708.6	710.0	711.3	712.7	714.1
137.5°	727.3	729.1	731.0	732.8	734.7	735.6	736.4	737.9	739.4	741.0	742.5
140°	757.1	758.3	759.5	760.8	762.0	762.6	763.4	765.1	766.8	768.5	770.2
142.5°	782.0	783.1	784.2	785.3	786.4	786.9	787.9	789.9	791.9	793.9	795.9
145°	808.3	808.1	808.0	807.8	807.7	807.6	808.9	811.5	814.2	816.8	819.4
147.5°	831.2	830.7	830.3	829.8	829.3	829.1	830.4	833.0	835.7	838.3	840.9
150°	853.3	852.2	851.2	850.1	849.0	848.5	849.7	852.2	854.7	857.1	859.6
152.5°	872.1	870.9	869.6	868.4	867.1	866.5	867.7	870.0	872.3	874.6	876.9
155°	890.1	888.7	887.3	885.9	884.5	883.8	884.7	886.6	888.4	890.3	892.1
157.5°	904.6	903.4	902.2	900.9	899.7	899.1	899.8	901.2	902.5	903.9	905.3
160°	917.1	916.2	915.2	914.3	913.4	912.9	913.4	914.3	915.2	916.2	917.1
162.5°	928.2	927.3	926.3	925.4	924.5	924.0	924.4	925.2	925.9	926.7	927.5
165°	937.9	937.0	936.0	935.1	934.2	933.7	933.9	934.4	934.9	935.3	935.8
167.5°	945.5	944.6	943.6	942.7	941.8	941.3	941.5	942.0	942.5	942.9	943.4
170°	951.7	950.8	949.9	949.0	948.1	947.6	947.7	948.0	948.3	948.6	948.9
172.5°	955.9	955.0	954.0	953.1	952.2	951.7	951.9	952.2	952.5	952.8	953.1
175°	959.3	958.2	957.2	956.1	955.0	954.5	954.7	955.0	955.3	955.6	955.9
177.5°	960.7	959.6	958.6	957.5	956.4	955.9	956.0	956.1	956.3	956.4	956.6
180°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2

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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°	14.7	15.4	16.2	16.9	17.3	17.5	17.8	18.1	18.4	18.7	18.4
92.5°	16.9	17.2	17.5	17.8	18.0	18.1	18.2	18.4	18.5	18.7	18.5
95°	27.8	28.6	29.3	30.1	30.5	30.4	30.3	30.1	30.0	29.8	30.0
97.5°	35.8	36.2	36.7	37.2	37.4	37.5	37.6	37.8	37.9	38.1	37.9
100°	40.7	41.9	43.2	44.4	45.0	45.2	45.5	45.8	46.1	46.4	46.1
102.5°	42.6	44.3	46.0	47.7	48.5	48.7	49.2	49.7	50.1	50.6	50.1
105°	44.0	45.7	47.4	49.1	49.9	50.2	50.8	51.4	52.0	52.6	52.0
107.5°	45.3	47.0	48.7	50.4	51.3	51.6	52.2	52.8	53.4	54.0	53.4
110°	105.8	90.4	75.0	59.6	51.9	52.2	52.8	53.5	54.1	54.7	54.1

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	285.5	219.2	152.8	86.5	53.3	53.5	54.0	54.5	54.9	55.4	54.9
115°	356.1	284.9	213.6	142.3	106.7	101.2	90.1	79.0	67.9	56.8	67.9
117.5°	442.8	420.8	398.7	376.7	365.7	345.5	305.2	264.9	224.5	184.2	224.5
120°	509.5	511.4	513.2	515.1	516.0	505.6	484.8	464.1	443.3	422.5	443.3
122.5°	549.5	550.4	551.3	552.2	552.7	552.8	552.9	553.1	553.2	553.4	553.2
125°	586.4	587.4	588.5	589.6	590.1	590.3	590.8	591.3	591.7	592.2	591.7
127.5°	620.8	622.3	623.9	625.4	626.2	626.3	626.4	626.6	626.7	626.9	626.7
130°	653.5	655.2	656.9	658.6	659.4	659.3	659.2	659.0	658.9	658.7	658.9
132.5°	685.7	687.1	688.5	689.9	690.6	690.5	690.4	690.2	690.1	689.9	690.1
135°	715.7	717.2	718.8	720.3	721.1	720.9	720.6	720.3	720.0	719.7	720.0
137.5°	744.1	745.6	747.2	748.7	749.5	749.3	748.8	748.3	747.9	747.4	747.9
140°	771.6	773.0	774.4	775.8	776.5	776.1	775.3	774.6	773.8	773.0	773.8
142.5°	797.1	798.3	799.6	800.8	801.4	801.0	800.2	799.5	798.7	797.9	798.7
145°	820.5	821.6	822.7	823.8	824.3	823.9	823.1	822.4	821.6	820.8	821.6
147.5°	841.7	842.4	843.2	843.9	844.3	844.0	843.4	842.8	842.2	841.6	842.2
150°	860.5	861.4	862.3	863.2	863.7	863.3	862.6	861.8	861.1	860.3	861.1
152.5°	877.8	878.8	879.7	880.6	881.1	880.6	879.5	878.4	877.3	876.2	877.3
155°	893.0	894.0	894.9	895.8	896.3	895.7	894.5	893.2	892.0	890.8	892.0
157.5°	906.4	907.4	908.5	909.6	910.1	909.5	908.3	907.0	905.8	904.6	905.8
160°	918.0	918.9	919.8	920.7	921.2	920.7	919.6	918.5	917.5	916.4	917.5
162.5°	928.6	929.6	930.7	931.8	932.3	931.6	930.2	928.9	927.5	926.1	927.5
165°	936.9	937.9	939.0	940.1	940.6	940.1	939.0	937.9	936.9	935.8	936.9
167.5°	944.5	945.5	946.6	947.7	948.2	947.5	946.1	944.8	943.4	942.0	943.4
170°	950.0	951.1	952.2	953.3	953.8	953.1	951.7	950.4	949.0	947.6	949.0
172.5°	954.2	955.2	956.3	957.4	957.9	957.2	955.8	954.5	953.1	951.7	953.1
175°	957.0	958.0	959.1	960.2	960.7	959.9	958.4	956.9	955.3	953.8	955.3
177.5°	957.7	958.7	959.8	960.9	961.4	960.7	959.3	958.0	956.6	955.2	956.6
180°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-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°	18.1	17.8	17.5	17.3	16.9	16.2	15.4	14.7	13.9	12.7	11.4
92.5°	18.4	18.2	18.1	18.0	17.8	17.5	17.2	16.9	16.6	16.1	15.7
95°	30.1	30.3	30.4	30.5	30.1	29.3	28.6	27.8	27.0	25.9	24.9
97.5°	37.8	37.6	37.5	37.4	37.2	36.7	36.2	35.8	35.3	32.8	30.4
100°	45.8	45.5	45.2	45.0	44.4	43.2	41.9	40.7	39.5	36.9	34.3
102.5°	49.7	49.2	48.7	48.5	47.7	46.0	44.3	42.6	40.9	68.9	96.9
105°	51.4	50.8	50.2	49.9	49.1	47.4	45.7	44.0	42.3	84.3	126.3
107.5°	52.8	52.2	51.6	51.3	50.4	48.7	47.0	45.3	43.6	95.5	147.4
110°	53.5	52.8	52.2	51.9	59.6	75.0	90.4	105.8	121.2	165.7	210.2

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	54.5	54.0	53.5	53.3	86.5	152.8	219.2	285.5	351.9	354.5	357.1
115°	79.0	90.1	101.2	106.7	142.3	213.6	284.9	356.1	427.4	423.6	419.7
117.5°	264.9	305.2	345.5	365.7	376.7	398.7	420.8	442.8	464.8	462.2	459.6
120°	464.1	484.8	505.6	516.0	515.1	513.2	511.4	509.5	507.7	504.9	502.1
122.5°	553.1	552.9	552.8	552.7	552.2	551.3	550.4	549.5	548.6	545.5	542.4
125°	591.3	590.8	590.3	590.1	589.6	588.5	587.4	586.4	585.3	582.4	579.4
127.5°	626.6	626.4	626.3	626.2	625.4	623.9	622.3	620.8	619.2	616.9	614.6
130°	659.0	659.2	659.3	659.4	658.6	656.9	655.2	653.5	651.8	650.1	648.4
132.5°	690.2	690.4	690.5	690.6	689.9	688.5	687.1	685.7	684.3	682.6	680.9
135°	720.3	720.6	720.9	721.1	720.3	718.8	717.2	715.7	714.1	712.7	711.3
137.5°	748.3	748.8	749.3	749.5	748.7	747.2	745.6	744.1	742.5	741.0	739.4
140°	774.6	775.3	776.1	776.5	775.8	774.4	773.0	771.6	770.2	768.5	766.8
142.5°	799.5	800.2	801.0	801.4	800.8	799.6	798.3	797.1	795.9	793.9	791.9
145°	822.4	823.1	823.9	824.3	823.8	822.7	821.6	820.5	819.4	816.8	814.2
147.5°	842.8	843.4	844.0	844.3	843.9	843.2	842.4	841.7	840.9	838.3	835.7
150°	861.8	862.6	863.3	863.7	863.2	862.3	861.4	860.5	859.6	857.1	854.7
152.5°	878.4	879.5	880.6	881.1	880.6	879.7	878.8	877.8	876.9	874.6	872.3
155°	893.2	894.5	895.7	896.3	895.8	894.9	894.0	893.0	892.1	890.3	888.4
157.5°	907.0	908.3	909.5	910.1	909.6	908.5	907.4	906.4	905.3	903.9	902.5
160°	918.5	919.6	920.7	921.2	920.7	919.8	918.9	918.0	917.1	916.2	915.2
162.5°	928.9	930.2	931.6	932.3	931.8	930.7	929.6	928.6	927.5	926.7	925.9
165°	937.9	939.0	940.1	940.6	940.1	939.0	937.9	936.9	935.8	935.3	934.9
167.5°	944.8	946.1	947.5	948.2	947.7	946.6	945.5	944.5	943.4	942.9	942.5
170°	950.4	951.7	953.1	953.8	953.3	952.2	951.1	950.0	948.9	948.6	948.3
172.5°	954.5	955.8	957.2	957.9	957.4	956.3	955.2	954.2	953.1	952.8	952.5
175°	956.9	958.4	959.9	960.7	960.2	959.1	958.0	957.0	955.9	955.6	955.3
177.5°	958.0	959.3	960.7	961.4	960.9	959.8	958.7	957.7	956.6	956.4	956.3
180°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-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°	10.2	8.9	8.3	7.5	5.8	4.1	2.4	0.7	2.4	4.1	5.8
92.5°	15.2	14.7	14.5	14.8	15.4	16.1	16.7	17.3	16.7	16.1	15.4
95°	23.8	22.7	22.2	24.7	29.8	34.9	39.9	45.0	39.9	34.9	29.8
97.5°	27.9	25.4	24.2	30.5	43.1	55.8	68.4	81.0	68.4	55.8	43.1
100°	31.6	29.0	27.7	38.2	59.3	80.4	101.5	122.6	101.5	80.4	59.3
102.5°	124.9	152.9	166.9	167.1	167.4	167.7	168.0	168.3	168.0	167.7	167.4
105°	168.3	210.3	231.3	229.0	224.4	219.8	215.2	210.6	215.2	219.8	224.4
107.5°	199.3	251.2	277.1	275.2	271.3	267.4	263.6	259.7	263.6	267.4	271.3
110°	254.7	299.2	321.4	319.8	316.5	313.3	310.0	306.8	310.0	313.3	316.5

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	359.7	362.3	363.6	362.2	359.5	356.7	354.0	351.2	354.0	356.7	359.5
115°	415.9	412.0	410.1	408.8	406.2	403.5	400.9	398.3	400.9	403.5	406.2
117.5°	456.9	454.3	453.0	451.5	448.4	445.3	442.2	439.1	442.2	445.3	448.4
120°	499.4	496.6	495.2	494.1	491.8	489.5	487.2	484.9	487.2	489.5	491.8
122.5°	539.3	536.2	534.7	533.5	531.0	528.5	526.1	523.6	526.1	528.5	531.0
125°	576.5	573.6	572.1	571.1	569.1	567.1	565.1	563.1	565.1	567.1	569.1
127.5°	612.3	610.0	608.8	607.7	605.6	603.4	601.3	599.1	601.3	603.4	605.6
130°	646.7	645.0	644.2	643.0	640.5	638.0	635.6	633.1	635.6	638.0	640.5
132.5°	679.2	677.5	676.7	675.7	673.7	671.7	669.7	667.7	669.7	671.7	673.7
135°	710.0	708.6	707.9	706.7	704.2	701.7	699.3	696.8	699.3	701.7	704.2
137.5°	737.9	736.4	735.6	734.7	732.8	731.0	729.1	727.3	729.1	731.0	732.8
140°	765.1	763.4	762.6	762.0	760.8	759.5	758.3	757.1	758.3	759.5	760.8
142.5°	789.9	787.9	786.9	786.4	785.3	784.2	783.1	782.0	783.1	784.2	785.3
145°	811.5	808.9	807.6	807.7	807.8	808.0	808.1	808.3	808.1	808.0	807.8
147.5°	833.0	830.4	829.1	829.3	829.8	830.3	830.7	831.2	830.7	830.3	829.8
150°	852.2	849.7	848.5	849.0	850.1	851.2	852.2	853.3	852.2	851.2	850.1
152.5°	870.0	867.7	866.5	867.1	868.4	869.6	870.9	872.1	870.9	869.6	868.4
155°	886.6	884.7	883.8	884.5	885.9	887.3	888.7	890.1	888.7	887.3	885.9
157.5°	901.2	899.8	899.1	899.7	900.9	902.2	903.4	904.6	903.4	902.2	900.9
160°	914.3	913.4	912.9	913.4	914.3	915.2	916.2	917.1	916.2	915.2	914.3
162.5°	925.2	924.4	924.0	924.5	925.4	926.3	927.3	928.2	927.3	926.3	925.4
165°	934.4	933.9	933.7	934.2	935.1	936.0	937.0	937.9	937.0	936.0	935.1
167.5°	942.0	941.5	941.3	941.8	942.7	943.6	944.6	945.5	944.6	943.6	942.7
170°	948.0	947.7	947.6	948.1	949.0	949.9	950.8	951.7	950.8	949.9	949.0
172.5°	952.2	951.9	951.7	952.2	953.1	954.0	955.0	955.9	955.0	954.0	953.1
175°	955.0	954.7	954.5	955.0	956.1	957.2	958.2	959.3	958.2	957.2	956.1
177.5°	956.1	956.0	955.9	956.4	957.5	958.6	959.6	960.7	959.6	958.6	957.5
180°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-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°	7.5	8.3	8.9	10.2	11.4	12.7	13.9	14.7	15.4	16.2	16.9
92.5°	14.8	14.5	14.7	15.2	15.7	16.1	16.6	16.9	17.2	17.5	17.8
95°	24.7	22.2	22.7	23.8	24.9	25.9	27.0	27.8	28.6	29.3	30.1
97.5°	30.5	24.2	25.4	27.9	30.4	32.8	35.3	35.8	36.2	36.7	37.2
100°	38.2	27.7	29.0	31.6	34.3	36.9	39.5	40.7	41.9	43.2	44.4
102.5°	167.1	166.9	152.9	124.9	96.9	68.9	40.9	42.6	44.3	46.0	47.7
105°	229.0	231.3	210.3	168.3	126.3	84.3	42.3	44.0	45.7	47.4	49.1
107.5°	275.2	277.1	251.2	199.3	147.4	95.5	43.6	45.3	47.0	48.7	50.4
110°	319.8	321.4	299.2	254.7	210.2	165.7	121.2	105.8	90.4	75.0	59.6

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	362.2	363.6	362.3	359.7	357.1	354.5	351.9	285.5	219.2	152.8	86.5
115°	408.8	410.1	412.0	415.9	419.7	423.6	427.4	356.1	284.9	213.6	142.3
117.5°	451.5	453.0	454.3	456.9	459.6	462.2	464.8	442.8	420.8	398.7	376.7
120°	494.1	495.2	496.6	499.4	502.1	504.9	507.7	509.5	511.4	513.2	515.1
122.5°	533.5	534.7	536.2	539.3	542.4	545.5	548.6	549.5	550.4	551.3	552.2
125°	571.1	572.1	573.6	576.5	579.4	582.4	585.3	586.4	587.4	588.5	589.6
127.5°	607.7	608.8	610.0	612.3	614.6	616.9	619.2	620.8	622.3	623.9	625.4
130°	643.0	644.2	645.0	646.7	648.4	650.1	651.8	653.5	655.2	656.9	658.6
132.5°	675.7	676.7	677.5	679.2	680.9	682.6	684.3	685.7	687.1	688.5	689.9
135°	706.7	707.9	708.6	710.0	711.3	712.7	714.1	715.7	717.2	718.8	720.3
137.5°	734.7	735.6	736.4	737.9	739.4	741.0	742.5	744.1	745.6	747.2	748.7
140°	762.0	762.6	763.4	765.1	766.8	768.5	770.2	771.6	773.0	774.4	775.8
142.5°	786.4	786.9	787.9	789.9	791.9	793.9	795.9	797.1	798.3	799.6	800.8
145°	807.7	807.6	808.9	811.5	814.2	816.8	819.4	820.5	821.6	822.7	823.8
147.5°	829.3	829.1	830.4	833.0	835.7	838.3	840.9	841.7	842.4	843.2	843.9
150°	849.0	848.5	849.7	852.2	854.7	857.1	859.6	860.5	861.4	862.3	863.2
152.5°	867.1	866.5	867.7	870.0	872.3	874.6	876.9	877.8	878.8	879.7	880.6
155°	884.5	883.8	884.7	886.6	888.4	890.3	892.1	893.0	894.0	894.9	895.8
157.5°	899.7	899.1	899.8	901.2	902.5	903.9	905.3	906.4	907.4	908.5	909.6
160°	913.4	912.9	913.4	914.3	915.2	916.2	917.1	918.0	918.9	919.8	920.7
162.5°	924.5	924.0	924.4	925.2	925.9	926.7	927.5	928.6	929.6	930.7	931.8
165°	934.2	933.7	933.9	934.4	934.9	935.3	935.8	936.9	937.9	939.0	940.1
167.5°	941.8	941.3	941.5	942.0	942.5	942.9	943.4	944.5	945.5	946.6	947.7
170°	948.1	947.6	947.7	948.0	948.3	948.6	948.9	950.0	951.1	952.2	953.3
172.5°	952.2	951.7	951.9	952.2	952.5	952.8	953.1	954.2	955.2	956.3	957.4
175°	955.0	954.5	954.7	955.0	955.3	955.6	955.9	957.0	958.0	959.1	960.2
177.5°	956.4	955.9	956.0	956.1	956.3	956.4	956.6	957.7	958.7	959.8	960.9
180°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-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°	17.3	17.5	17.8	18.1	18.4	18.7	18.4	18.1	17.8	17.5	17.3
92.5°	18.0	18.1	18.2	18.4	18.5	18.7	18.5	18.4	18.2	18.1	18.0
95°	30.5	30.4	30.3	30.1	30.0	29.8	30.0	30.1	30.3	30.4	30.5
97.5°	37.4	37.5	37.6	37.8	37.9	38.1	37.9	37.8	37.6	37.5	37.4
100°	45.0	45.2	45.5	45.8	46.1	46.4	46.1	45.8	45.5	45.2	45.0
102.5°	48.5	48.7	49.2	49.7	50.1	50.6	50.1	49.7	49.2	48.7	48.5
105°	49.9	50.2	50.8	51.4	52.0	52.6	52.0	51.4	50.8	50.2	49.9
107.5°	51.3	51.6	52.2	52.8	53.4	54.0	53.4	52.8	52.2	51.6	51.3
110°	51.9	52.2	52.8	53.5	54.1	54.7	54.1	53.5	52.8	52.2	51.9

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	53.3	53.5	54.0	54.5	54.9	55.4	54.9	54.5	54.0	53.5	53.3
115°	106.7	101.2	90.1	79.0	67.9	56.8	67.9	79.0	90.1	101.2	106.7
117.5°	365.7	345.5	305.2	264.9	224.5	184.2	224.5	264.9	305.2	345.5	365.7
120°	516.0	505.6	484.8	464.1	443.3	422.5	443.3	464.1	484.8	505.6	516.0
122.5°	552.7	552.8	552.9	553.1	553.2	553.4	553.2	553.1	552.9	552.8	552.7
125°	590.1	590.3	590.8	591.3	591.7	592.2	591.7	591.3	590.8	590.3	590.1
127.5°	626.2	626.3	626.4	626.6	626.7	626.9	626.7	626.6	626.4	626.3	626.2
130°	659.4	659.3	659.2	659.0	658.9	658.7	658.9	659.0	659.2	659.3	659.4
132.5°	690.6	690.5	690.4	690.2	690.1	689.9	690.1	690.2	690.4	690.5	690.6
135°	721.1	720.9	720.6	720.3	720.0	719.7	720.0	720.3	720.6	720.9	721.1
137.5°	749.5	749.3	748.8	748.3	747.9	747.4	747.9	748.3	748.8	749.3	749.5
140°	776.5	776.1	775.3	774.6	773.8	773.0	773.8	774.6	775.3	776.1	776.5
142.5°	801.4	801.0	800.2	799.5	798.7	797.9	798.7	799.5	800.2	801.0	801.4
145°	824.3	823.9	823.1	822.4	821.6	820.8	821.6	822.4	823.1	823.9	824.3
147.5°	844.3	844.0	843.4	842.8	842.2	841.6	842.2	842.8	843.4	844.0	844.3
150°	863.7	863.3	862.6	861.8	861.1	860.3	861.1	861.8	862.6	863.3	863.7
152.5°	881.1	880.6	879.5	878.4	877.3	876.2	877.3	878.4	879.5	880.6	881.1
155°	896.3	895.7	894.5	893.2	892.0	890.8	892.0	893.2	894.5	895.7	896.3
157.5°	910.1	909.5	908.3	907.0	905.8	904.6	905.8	907.0	908.3	909.5	910.1
160°	921.2	920.7	919.6	918.5	917.5	916.4	917.5	918.5	919.6	920.7	921.2
162.5°	932.3	931.6	930.2	928.9	927.5	926.1	927.5	928.9	930.2	931.6	932.3
165°	940.6	940.1	939.0	937.9	936.9	935.8	936.9	937.9	939.0	940.1	940.6
167.5°	948.2	947.5	946.1	944.8	943.4	942.0	943.4	944.8	946.1	947.5	948.2
170°	953.8	953.1	951.7	950.4	949.0	947.6	949.0	950.4	951.7	953.1	953.8
172.5°	957.9	957.2	955.8	954.5	953.1	951.7	953.1	954.5	955.8	957.2	957.9
175°	960.7	959.9	958.4	956.9	955.3	953.8	955.3	956.9	958.4	959.9	960.7
177.5°	961.4	960.7	959.3	958.0	956.6	955.2	956.6	958.0	959.3	960.7	961.4
180°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-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°	16.9	16.2	15.4	14.7	13.9	12.7	11.4	10.2	8.9	8.3	7.5
92.5°	17.8	17.5	17.2	16.9	16.6	16.1	15.7	15.2	14.7	14.5	14.8
95°	30.1	29.3	28.6	27.8	27.0	25.9	24.9	23.8	22.7	22.2	24.7
97.5°	37.2	36.7	36.2	35.8	35.3	32.8	30.4	27.9	25.4	24.2	30.5
100°	44.4	43.2	41.9	40.7	39.5	36.9	34.3	31.6	29.0	27.7	38.2
102.5°	47.7	46.0	44.3	42.6	40.9	68.9	96.9	124.9	152.9	166.9	167.1
105°	49.1	47.4	45.7	44.0	42.3	84.3	126.3	168.3	210.3	231.3	229.0
107.5°	50.4	48.7	47.0	45.3	43.6	95.5	147.4	199.3	251.2	277.1	275.2
110°	59.6	75.0	90.4	105.8	121.2	165.7	210.2	254.7	299.2	321.4	319.8

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CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	86.5	152.8	219.2	285.5	351.9	354.5	357.1	359.7	362.3	363.6	362.2
115°	142.3	213.6	284.9	356.1	427.4	423.6	419.7	415.9	412.0	410.1	408.8
117.5°	376.7	398.7	420.8	442.8	464.8	462.2	459.6	456.9	454.3	453.0	451.5
120°	515.1	513.2	511.4	509.5	507.7	504.9	502.1	499.4	496.6	495.2	494.1
122.5°	552.2	551.3	550.4	549.5	548.6	545.5	542.4	539.3	536.2	534.7	533.5
125°	589.6	588.5	587.4	586.4	585.3	582.4	579.4	576.5	573.6	572.1	571.1
127.5°	625.4	623.9	622.3	620.8	619.2	616.9	614.6	612.3	610.0	608.8	607.7
130°	658.6	656.9	655.2	653.5	651.8	650.1	648.4	646.7	645.0	644.2	643.0
132.5°	689.9	688.5	687.1	685.7	684.3	682.6	680.9	679.2	677.5	676.7	675.7
135°	720.3	718.8	717.2	715.7	714.1	712.7	711.3	710.0	708.6	707.9	706.7
137.5°	748.7	747.2	745.6	744.1	742.5	741.0	739.4	737.9	736.4	735.6	734.7
140°	775.8	774.4	773.0	771.6	770.2	768.5	766.8	765.1	763.4	762.6	762.0
142.5°	800.8	799.6	798.3	797.1	795.9	793.9	791.9	789.9	787.9	786.9	786.4
145°	823.8	822.7	821.6	820.5	819.4	816.8	814.2	811.5	808.9	807.6	807.7
147.5°	843.9	843.2	842.4	841.7	840.9	838.3	835.7	833.0	830.4	829.1	829.3
150°	863.2	862.3	861.4	860.5	859.6	857.1	854.7	852.2	849.7	848.5	849.0
152.5°	880.6	879.7	878.8	877.8	876.9	874.6	872.3	870.0	867.7	866.5	867.1
155°	895.8	894.9	894.0	893.0	892.1	890.3	888.4	886.6	884.7	883.8	884.5
157.5°	909.6	908.5	907.4	906.4	905.3	903.9	902.5	901.2	899.8	899.1	899.7
160°	920.7	919.8	918.9	918.0	917.1	916.2	915.2	914.3	913.4	912.9	913.4
162.5°	931.8	930.7	929.6	928.6	927.5	926.7	925.9	925.2	924.4	924.0	924.5
165°	940.1	939.0	937.9	936.9	935.8	935.3	934.9	934.4	933.9	933.7	934.2
167.5°	947.7	946.6	945.5	944.5	943.4	942.9	942.5	942.0	941.5	941.3	941.8
170°	953.3	952.2	951.1	950.0	948.9	948.6	948.3	948.0	947.7	947.6	948.1
172.5°	957.4	956.3	955.2	954.2	953.1	952.8	952.5	952.2	951.9	951.7	952.2
175°	960.2	959.1	958.0	957.0	955.9	955.6	955.3	955.0	954.7	954.5	955.0
177.5°	960.9	959.8	958.7	957.7	956.6	956.4	956.3	956.1	956.0	955.9	956.4
180°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-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°	5.8	4.1	2.4	0.7
92.5°	15.4	16.1	16.7	17.3
95°	29.8	34.9	39.9	45.0
97.5°	43.1	55.8	68.4	81.0
100°	59.3	80.4	101.5	122.6
102.5°	167.4	167.7	168.0	168.3
105°	224.4	219.8	215.2	210.6
107.5°	271.3	267.4	263.6	259.7
110°	316.5	313.3	310.0	306.8

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	359.5	356.7	354.0	351.2
115°	406.2	403.5	400.9	398.3
117.5°	448.4	445.3	442.2	439.1
120°	491.8	489.5	487.2	484.9
122.5°	531.0	528.5	526.1	523.6
125°	569.1	567.1	565.1	563.1
127.5°	605.6	603.4	601.3	599.1
130°	640.5	638.0	635.6	633.1
132.5°	673.7	671.7	669.7	667.7
135°	704.2	701.7	699.3	696.8
137.5°	732.8	731.0	729.1	727.3
140°	760.8	759.5	758.3	757.1
142.5°	785.3	784.2	783.1	782.0
145°	807.8	808.0	808.1	808.3
147.5°	829.8	830.3	830.7	831.2
150°	850.1	851.2	852.2	853.3
152.5°	868.4	869.6	870.9	872.1
155°	885.9	887.3	888.7	890.1
157.5°	900.9	902.2	903.4	904.6
160°	914.3	915.2	916.2	917.1
162.5°	925.4	926.3	927.3	928.2
165°	935.1	936.0	937.0	937.9
167.5°	942.7	943.6	944.6	945.5
170°	949.0	949.9	950.8	951.7
172.5°	953.1	954.0	955.0	955.9
175°	956.1	957.2	958.2	959.3
177.5°	957.5	958.6	959.6	960.7
180°	957.2	957.2	957.2	957.2

TEST NUMBER: P998267

CATALOG NUMBER: SA2XXDIP-B290D725UB2750-4F0-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	11.39	12.08	12.50	13.18	14.71	8.88	9.58	9.99	10.68	12.20
	3H	12.19	12.81	13.31	13.92	15.46	10.21	10.83	11.33	11.95	13.48
	4H	12.35	12.94	13.48	14.05	15.59	10.67	11.26	11.80	12.37	13.91
	6H	12.39	12.93	13.52	14.04	15.60	10.97	11.51	12.10	12.62	14.18
	8H	12.36	12.87	13.50	14.00	15.55	11.04	11.56	12.18	12.69	14.24
	12H	12.32	12.81	13.46	13.93	15.50	11.08	11.57	12.22	12.69	14.26
4H	2H	11.41	12.00	12.54	13.11	14.65	9.31	9.90	10.44	11.01	12.55
	3H	12.37	12.87	13.52	14.00	15.56	10.75	11.24	11.89	12.38	13.94
	4H	12.65	13.10	13.79	14.22	15.80	11.28	11.73	12.42	12.86	14.43
	6H	12.77	13.15	13.92	14.30	15.87	11.65	12.04	12.80	13.19	14.75
	8H	12.76	13.12	13.91	14.26	15.85	11.76	12.12	12.91	13.26	14.84
	12H	12.72	13.04	13.88	14.20	15.78	11.81	12.13	12.97	13.28	14.87
8H	4H	12.64	13.00	13.79	14.14	15.73	11.41	11.77	12.56	12.91	14.49
	6H	12.81	13.11	13.98	14.29	15.87	11.84	12.14	13.01	13.32	14.90
	8H	12.84	13.10	14.02	14.26	15.86	11.99	12.25	13.16	13.41	15.01
	12H	12.82	13.05	14.00	14.21	15.84	12.07	12.30	13.25	13.46	15.09
12H	4H	12.59	12.92	13.76	14.07	15.66	11.38	11.70	12.54	12.86	14.44
	6H	12.79	13.05	13.97	14.21	15.81	11.84	12.10	13.01	13.26	14.86
	8H	12.82	13.04	14.00	14.20	15.84	11.99	12.21	13.17	13.37	15.01