

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: P998320

Luminaire Tested: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998320
REPORT IS A COMBINATION OF REPORTS P984060 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

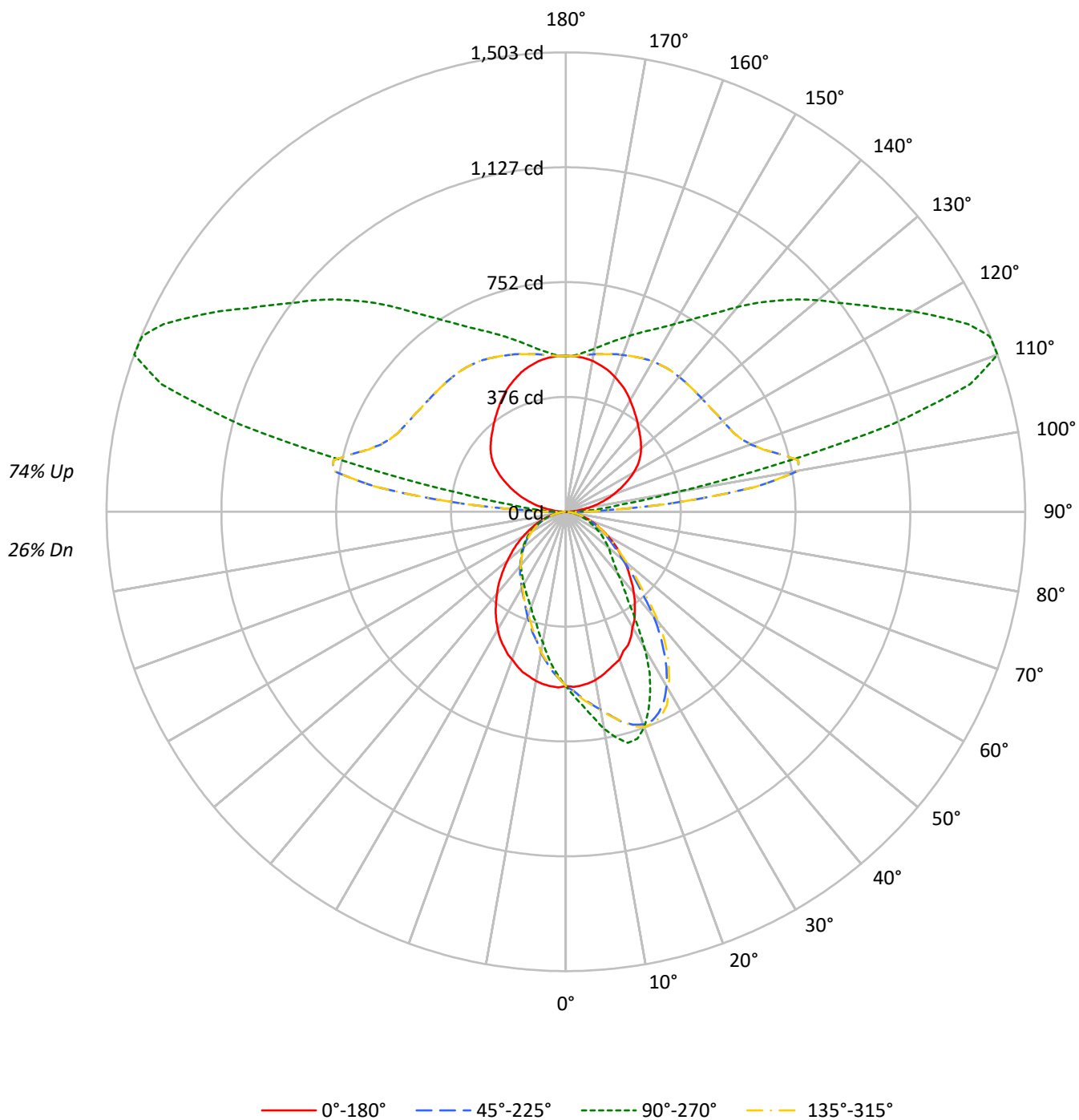
Lumens per Lamp: N/A
Luminaire Lumens: 4809.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34
1	93	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	29
2	85	78	72	67	75	70	65	61	54	51	48	40	38	36	27	26	25
3	77	68	62	56	69	61	56	51	48	44	41	36	33	31	24	23	22
4	71	61	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17
6	60	48	41	35	53	44	37	32	34	30	26	26	23	20	18	16	15
7	55	44	36	31	49	39	33	28	31	26	23	24	20	18	17	15	13
8	51	39	32	27	46	36	29	25	28	24	20	22	18	16	15	13	12
9	48	36	29	24	42	33	26	22	26	21	18	20	17	14	14	12	11
10	44	33	26	21	40	30	24	20	24	19	16	18	15	13	13	11	10

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	1.1
10°-20°	158.1	3.3
20°-30°	229.4	4.8
30°-40°	241.8	5.0
40°-50°	214.0	4.5
50°-60°	170.9	3.6
60°-70°	116.1	2.4
70°-80°	59.4	1.2
80°-90°	17.3	0.4
90°-100°	198.6	4.1
100°-110°	699.4	14.5
110°-120°	734.5	15.3
120°-130°	604.3	12.6
130°-140°	485.4	10.1
140°-150°	366.7	7.6
150°-160°	257.8	5.4
160°-170°	151.7	3.2
170°-180°	49.4	1.0
0°-30°	441.8	9.2
0°-40°	683.6	14.2
0°-60°	1068.5	22.2
0°-90°	1261.3	26.2
90°-120°	1632.5	33.9
90°-150°	3088.8	64.2
90°-180°	3548.0	73.8
0°-180°	4809.0	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	32	1	32	1	3
95°	34	112	34	112	34	35
105°	120	1104	120	1104	120	127
115°	211	1453	211	1453	211	209
125°	294	1179	294	1179	294	261
135°	345	977	345	977	345	266
145°	394	780	394	780	394	247
155°	448	655	448	655	448	206
165°	488	575	488	575	488	138
175°	508	518	508	518	508	48
180°	509	509	509	509	509	

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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°	1.0	3.9	7.8	9.8	11.8	13.2	14.7	19.6	26.5	32.3	33.3
92.5°	14.7	20.6	28.4	33.3	41.1	46.5	51.9	78.4	115.6	148.9	150.9
95°	34.3	38.2	48.0	56.8	72.5	84.2	96.0	141.1	226.3	340.0	384.0
97.5°	50.9	56.8	67.6	80.3	98.0	111.2	124.4	182.2	300.8	484.0	626.0
100°	75.4	78.4	87.2	102.9	122.5	136.2	149.9	201.8	321.3	532.9	774.0
102.5°	98.0	99.9	108.7	124.4	145.0	158.7	172.4	219.4	322.3	514.3	778.8
105°	119.5	123.4	130.3	145.0	166.5	180.2	194.0	240.0	327.2	488.9	725.9
107.5°	143.0	146.0	152.8	166.5	188.1	201.8	215.5	260.6	338.0	475.1	677.0
110°	166.5	170.5	176.3	189.1	209.7	223.9	238.1	281.2	351.7	471.2	643.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	188.1	192.0	198.9	210.6	230.2	244.9	259.6	300.8	366.4	472.2	622.1
115°	210.6	215.5	221.4	233.2	252.8	266.0	279.2	321.3	381.1	476.1	607.4
117.5°	234.1	238.1	243.9	254.7	273.3	287.0	300.8	340.0	396.8	482.0	599.6
120°	255.7	259.6	265.5	274.3	293.9	307.6	321.3	359.5	412.4	487.9	592.7
122.5°	276.3	279.2	285.1	294.9	314.5	328.7	342.9	378.2	426.2	494.7	588.8
125°	293.9	296.8	302.7	314.5	334.1	347.8	361.5	396.8	440.9	501.6	583.9
127.5°	308.6	312.5	320.4	333.1	351.7	365.9	380.1	414.4	454.6	508.5	581.0
130°	321.3	325.3	335.1	348.8	368.4	382.1	395.8	430.1	467.3	516.3	579.0
132.5°	333.1	338.0	348.8	363.5	384.0	397.8	411.5	443.8	480.0	524.1	578.0
135°	344.8	348.8	360.5	375.2	397.8	411.5	425.2	456.5	490.8	530.0	577.0
137.5°	355.6	360.5	372.3	388.0	410.5	423.2	436.0	467.3	499.6	535.9	577.0
140°	368.4	372.3	384.0	399.7	421.3	434.0	446.7	476.1	506.5	539.8	576.1
142.5°	381.1	384.0	394.8	410.5	431.1	442.8	454.6	483.0	512.4	542.7	576.1
145°	393.8	397.8	407.5	422.2	441.8	452.6	463.4	489.8	517.3	544.7	574.1
147.5°	407.5	410.5	420.3	434.0	450.7	460.4	470.2	495.7	520.2	545.7	571.2
150°	421.3	424.2	432.0	444.8	459.5	468.3	477.1	499.6	522.2	544.7	568.2
152.5°	435.0	436.0	443.8	454.6	468.3	476.2	484.0	503.6	523.2	542.7	563.3
155°	447.7	448.7	454.6	465.4	476.1	483.4	490.8	507.5	524.1	540.8	557.4
157.5°	458.5	459.5	464.4	474.2	483.0	489.4	495.7	510.4	524.1	536.9	551.6
160°	469.3	470.2	474.2	482.0	489.8	495.2	500.6	512.4	524.1	533.9	545.7
162.5°	480.0	479.1	483.0	488.9	495.7	499.6	503.6	513.4	523.2	531.0	540.8
165°	487.9	486.9	488.9	494.7	499.6	502.6	505.5	514.3	521.2	527.1	533.9
167.5°	494.7	493.8	495.7	499.6	503.6	505.6	507.5	514.3	520.2	523.2	528.1
170°	501.6	499.6	500.6	503.6	505.5	507.0	508.5	513.4	518.3	520.2	523.2
172.5°	505.5	504.5	503.6	506.5	507.5	508.4	509.4	512.4	515.3	516.3	517.3
175°	508.5	507.5	506.5	508.5	508.5	509.0	509.4	511.4	513.4	512.4	513.4
177.5°	510.4	508.5	507.5	509.4	509.4	509.4	509.4	510.4	512.4	510.4	509.4
180°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4

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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°	32.3	31.3	29.4	31.3	31.8	32.3	32.3	32.3	32.3	32.3	32.3
92.5°	126.4	98.9	84.3	73.5	69.6	65.6	64.7	60.7	61.7	59.8	61.7
95°	336.0	256.7	196.9	155.8	145.0	134.2	121.5	113.6	110.7	111.7	110.7
97.5°	630.9	525.1	419.3	320.4	291.0	261.6	223.4	203.8	193.0	187.1	193.0
100°	915.0	894.5	773.0	638.8	579.5	520.2	438.9	396.8	368.4	350.7	368.4
102.5°	1020.8	1136.4	1132.5	1043.4	979.7	916.0	825.9	746.5	709.3	683.8	709.3
105°	986.5	1190.3	1301.0	1313.8	1297.6	1281.4	1220.7	1159.9	1117.8	1104.1	1117.8
107.5°	914.0	1132.5	1297.1	1393.1	1412.7	1432.3	1431.3	1422.5	1409.8	1387.2	1409.8
110°	846.4	1053.2	1228.5	1353.9	1394.1	1434.3	1476.4	1495.0	1503.8	1502.8	1503.8

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	799.4	980.7	1147.2	1283.4	1330.9	1378.4	1441.1	1475.4	1494.0	1500.9	1494.0
115°	762.2	923.8	1074.7	1203.1	1253.6	1304.0	1373.5	1418.6	1444.1	1452.9	1444.1
117.5°	736.7	876.8	1012.0	1131.5	1179.5	1227.5	1299.1	1347.1	1373.5	1380.4	1373.5
120°	717.1	843.5	965.0	1068.8	1113.4	1158.0	1226.6	1272.6	1301.0	1310.8	1301.0
122.5°	700.5	817.1	925.8	1022.8	1062.0	1101.2	1160.9	1206.0	1230.5	1238.3	1230.5
125°	684.8	791.6	892.5	978.7	1015.4	1052.2	1109.0	1146.2	1170.7	1178.6	1170.7
127.5°	670.1	766.1	859.2	941.5	975.8	1010.1	1060.0	1095.3	1116.8	1122.7	1116.8
130°	655.4	741.6	825.9	903.3	935.6	967.9	1015.9	1049.2	1068.8	1076.7	1068.8
132.5°	643.7	718.1	794.5	864.1	894.0	923.8	970.9	1004.2	1021.8	1028.7	1021.8
135°	632.9	696.6	761.2	825.9	853.3	880.7	922.9	955.2	972.8	976.7	972.8
137.5°	625.0	678.9	734.8	787.7	812.2	836.7	876.8	905.2	920.9	926.8	920.9
140°	618.2	662.3	709.3	754.4	776.0	797.5	828.8	854.3	869.0	874.9	869.0
142.5°	611.3	648.6	686.8	724.0	741.2	758.3	787.7	810.2	822.9	822.9	822.9
145°	605.4	635.8	668.1	698.5	712.7	726.9	750.4	767.1	776.9	779.8	776.9
147.5°	599.6	626.0	652.5	677.0	687.8	698.5	719.1	732.8	739.7	741.6	739.7
150°	591.7	615.2	636.8	657.4	666.2	675.0	689.7	701.5	707.3	708.3	707.3
152.5°	584.9	604.5	624.1	640.7	648.0	655.4	666.2	676.0	679.9	679.9	679.9
155°	576.1	594.7	610.3	625.0	630.4	635.8	646.6	653.4	657.4	655.4	657.4
157.5°	568.2	582.9	596.6	609.4	613.8	618.2	626.0	631.9	633.9	633.9	633.9
160°	559.4	572.1	582.9	593.7	597.1	600.5	607.4	612.3	613.3	613.3	613.3
162.5°	551.6	561.4	570.2	579.0	581.4	583.9	590.7	593.7	594.7	593.7	594.7
165°	542.7	550.6	557.4	564.3	566.2	568.2	572.1	576.1	576.1	575.1	576.1
167.5°	533.9	539.8	545.7	550.6	552.6	554.5	556.5	558.4	558.4	557.4	558.4
170°	527.1	532.0	534.9	538.8	539.8	540.8	541.8	544.7	543.7	541.8	543.7
172.5°	520.2	523.2	525.1	528.1	528.6	529.0	530.0	531.0	530.0	529.0	530.0
175°	514.3	517.3	518.3	519.2	519.7	520.2	520.2	521.2	520.2	518.3	520.2
177.5°	510.4	512.4	512.4	513.4	513.4	513.4	513.4	513.4	512.4	510.4	512.4
180°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

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°	32.3	32.3	32.3	31.8	31.3	29.4	31.3	32.3	33.3	32.3	26.5
92.5°	60.7	64.7	65.6	69.6	73.5	84.3	98.9	126.4	150.9	148.9	115.6
95°	113.6	121.5	134.2	145.0	155.8	196.9	256.7	336.0	384.0	340.0	226.3
97.5°	203.8	223.4	261.6	291.0	320.4	419.3	525.1	630.9	626.0	484.0	300.8
100°	396.8	438.9	520.2	579.5	638.8	773.0	894.5	915.0	774.0	532.9	321.3
102.5°	746.5	825.9	916.0	979.7	1043.4	1132.5	1136.4	1020.8	778.8	514.3	322.3
105°	1159.9	1220.7	1281.4	1297.6	1313.8	1301.0	1190.3	986.5	725.9	488.9	327.2
107.5°	1422.5	1431.3	1432.3	1412.7	1393.1	1297.1	1132.5	914.0	677.0	475.1	338.0
110°	1495.0	1476.4	1434.3	1394.1	1353.9	1228.5	1053.2	846.4	643.7	471.2	351.7

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1475.4	1441.1	1378.4	1330.9	1283.4	1147.2	980.7	799.4	622.1	472.2	366.4
115°	1418.6	1373.5	1304.0	1253.6	1203.1	1074.7	923.8	762.2	607.4	476.1	381.1
117.5°	1347.1	1299.1	1227.5	1179.5	1131.5	1012.0	876.8	736.7	599.6	482.0	396.8
120°	1272.6	1226.6	1158.0	1113.4	1068.8	965.0	843.5	717.1	592.7	487.9	412.4
122.5°	1206.0	1160.9	1101.2	1062.0	1022.8	925.8	817.1	700.5	588.8	494.7	426.2
125°	1146.2	1109.0	1052.2	1015.4	978.7	892.5	791.6	684.8	583.9	501.6	440.9
127.5°	1095.3	1060.0	1010.1	975.8	941.5	859.2	766.1	670.1	581.0	508.5	454.6
130°	1049.2	1015.9	967.9	935.6	903.3	825.9	741.6	655.4	579.0	516.3	467.3
132.5°	1004.2	970.9	923.8	894.0	864.1	794.5	718.1	643.7	578.0	524.1	480.0
135°	955.2	922.9	880.7	853.3	825.9	761.2	696.6	632.9	577.0	530.0	490.8
137.5°	905.2	876.8	836.7	812.2	787.7	734.8	678.9	625.0	577.0	535.9	499.6
140°	854.3	828.8	797.5	776.0	754.4	709.3	662.3	618.2	576.1	539.8	506.5
142.5°	810.2	787.7	758.3	741.2	724.0	686.8	648.6	611.3	576.1	542.7	512.4
145°	767.1	750.4	726.9	712.7	698.5	668.1	635.8	605.4	574.1	544.7	517.3
147.5°	732.8	719.1	698.5	687.8	677.0	652.5	626.0	599.6	571.2	545.7	520.2
150°	701.5	689.7	675.0	666.2	657.4	636.8	615.2	591.7	568.2	544.7	522.2
152.5°	676.0	666.2	655.4	648.0	640.7	624.1	604.5	584.9	563.3	542.7	523.2
155°	653.4	646.6	635.8	630.4	625.0	610.3	594.7	576.1	557.4	540.8	524.1
157.5°	631.9	626.0	618.2	613.8	609.4	596.6	582.9	568.2	551.6	536.9	524.1
160°	612.3	607.4	600.5	597.1	593.7	582.9	572.1	559.4	545.7	533.9	524.1
162.5°	593.7	590.7	583.9	581.4	579.0	570.2	561.4	551.6	540.8	531.0	523.2
165°	576.1	572.1	568.2	566.2	564.3	557.4	550.6	542.7	533.9	527.1	521.2
167.5°	558.4	556.5	554.5	552.6	550.6	545.7	539.8	533.9	528.1	523.2	520.2
170°	544.7	541.8	540.8	539.8	538.8	534.9	532.0	527.1	523.2	520.2	518.3
172.5°	531.0	530.0	529.0	528.6	528.1	525.1	523.2	520.2	517.3	516.3	515.3
175°	521.2	520.2	520.2	519.7	519.2	518.3	517.3	514.3	513.4	512.4	513.4
177.5°	513.4	513.4	513.4	513.4	513.4	512.4	512.4	510.4	509.4	510.4	512.4
180°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

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°	19.6	14.7	13.2	11.8	9.8	7.8	3.9	1.0	3.9	7.8	9.8
92.5°	78.4	51.9	46.5	41.1	33.3	28.4	20.6	14.7	20.6	28.4	33.3
95°	141.1	96.0	84.2	72.5	56.8	48.0	38.2	34.3	38.2	48.0	56.8
97.5°	182.2	124.4	111.2	98.0	80.3	67.6	56.8	50.9	56.8	67.6	80.3
100°	201.8	149.9	136.2	122.5	102.9	87.2	78.4	75.4	78.4	87.2	102.9
102.5°	219.4	172.4	158.7	145.0	124.4	108.7	99.9	98.0	99.9	108.7	124.4
105°	240.0	194.0	180.2	166.5	145.0	130.3	123.4	119.5	123.4	130.3	145.0
107.5°	260.6	215.5	201.8	188.1	166.5	152.8	146.0	143.0	146.0	152.8	166.5
110°	281.2	238.1	223.9	209.7	189.1	176.3	170.5	166.5	170.5	176.3	189.1

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	300.8	259.6	244.9	230.2	210.6	198.9	192.0	188.1	192.0	198.9	210.6
115°	321.3	279.2	266.0	252.8	233.2	221.4	215.5	210.6	215.5	221.4	233.2
117.5°	340.0	300.8	287.0	273.3	254.7	243.9	238.1	234.1	238.1	243.9	254.7
120°	359.5	321.3	307.6	293.9	274.3	265.5	259.6	255.7	259.6	265.5	274.3
122.5°	378.2	342.9	328.7	314.5	294.9	285.1	279.2	276.3	279.2	285.1	294.9
125°	396.8	361.5	347.8	334.1	314.5	302.7	296.8	293.9	296.8	302.7	314.5
127.5°	414.4	380.1	365.9	351.7	333.1	320.4	312.5	308.6	312.5	320.4	333.1
130°	430.1	395.8	382.1	368.4	348.8	335.1	325.3	321.3	325.3	335.1	348.8
132.5°	443.8	411.5	397.8	384.0	363.5	348.8	338.0	333.1	338.0	348.8	363.5
135°	456.5	425.2	411.5	397.8	375.2	360.5	348.8	344.8	348.8	360.5	375.2
137.5°	467.3	436.0	423.2	410.5	388.0	372.3	360.5	355.6	360.5	372.3	388.0
140°	476.1	446.7	434.0	421.3	399.7	384.0	372.3	368.4	372.3	384.0	399.7
142.5°	483.0	454.6	442.8	431.1	410.5	394.8	384.0	381.1	384.0	394.8	410.5
145°	489.8	463.4	452.6	441.8	422.2	407.5	397.8	393.8	397.8	407.5	422.2
147.5°	495.7	470.2	460.4	450.7	434.0	420.3	410.5	407.5	410.5	420.3	434.0
150°	499.6	477.1	468.3	459.5	444.8	432.0	424.2	421.3	424.2	432.0	444.8
152.5°	503.6	484.0	476.2	468.3	454.6	443.8	436.0	435.0	436.0	443.8	454.6
155°	507.5	490.8	483.4	476.1	465.4	454.6	448.7	447.7	448.7	454.6	465.4
157.5°	510.4	495.7	489.4	483.0	474.2	464.4	459.5	458.5	459.5	464.4	474.2
160°	512.4	500.6	495.2	489.8	482.0	474.2	470.2	469.3	470.2	474.2	482.0
162.5°	513.4	503.6	499.6	495.7	488.9	483.0	479.1	480.0	479.1	483.0	488.9
165°	514.3	505.5	502.6	499.6	494.7	488.9	486.9	487.9	486.9	488.9	494.7
167.5°	514.3	507.5	505.6	503.6	499.6	495.7	493.8	494.7	493.8	495.7	499.6
170°	513.4	508.5	507.0	505.5	503.6	500.6	499.6	501.6	499.6	500.6	503.6
172.5°	512.4	509.4	508.4	507.5	506.5	503.6	504.5	505.5	504.5	503.6	506.5
175°	511.4	509.4	509.0	508.5	508.5	506.5	507.5	508.5	507.5	506.5	508.5
177.5°	510.4	509.4	509.4	509.4	509.4	507.5	508.5	510.4	508.5	507.5	509.4
180°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

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°	11.8	13.2	14.7	19.6	26.5	32.3	33.3	32.3	31.3	29.4	31.3
92.5°	41.1	46.5	51.9	78.4	115.6	148.9	150.9	126.4	98.9	84.3	73.5
95°	72.5	84.2	96.0	141.1	226.3	340.0	384.0	336.0	256.7	196.9	155.8
97.5°	98.0	111.2	124.4	182.2	300.8	484.0	626.0	630.9	525.1	419.3	320.4
100°	122.5	136.2	149.9	201.8	321.3	532.9	774.0	915.0	894.5	773.0	638.8
102.5°	145.0	158.7	172.4	219.4	322.3	514.3	778.8	1020.8	1136.4	1132.5	1043.4
105°	166.5	180.2	194.0	240.0	327.2	488.9	725.9	986.5	1190.3	1301.0	1313.8
107.5°	188.1	201.8	215.5	260.6	338.0	475.1	677.0	914.0	1132.5	1297.1	1393.1
110°	209.7	223.9	238.1	281.2	351.7	471.2	643.7	846.4	1053.2	1228.5	1353.9

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	230.2	244.9	259.6	300.8	366.4	472.2	622.1	799.4	980.7	1147.2	1283.4
115°	252.8	266.0	279.2	321.3	381.1	476.1	607.4	762.2	923.8	1074.7	1203.1
117.5°	273.3	287.0	300.8	340.0	396.8	482.0	599.6	736.7	876.8	1012.0	1131.5
120°	293.9	307.6	321.3	359.5	412.4	487.9	592.7	717.1	843.5	965.0	1068.8
122.5°	314.5	328.7	342.9	378.2	426.2	494.7	588.8	700.5	817.1	925.8	1022.8
125°	334.1	347.8	361.5	396.8	440.9	501.6	583.9	684.8	791.6	892.5	978.7
127.5°	351.7	365.9	380.1	414.4	454.6	508.5	581.0	670.1	766.1	859.2	941.5
130°	368.4	382.1	395.8	430.1	467.3	516.3	579.0	655.4	741.6	825.9	903.3
132.5°	384.0	397.8	411.5	443.8	480.0	524.1	578.0	643.7	718.1	794.5	864.1
135°	397.8	411.5	425.2	456.5	490.8	530.0	577.0	632.9	696.6	761.2	825.9
137.5°	410.5	423.2	436.0	467.3	499.6	535.9	577.0	625.0	678.9	734.8	787.7
140°	421.3	434.0	446.7	476.1	506.5	539.8	576.1	618.2	662.3	709.3	754.4
142.5°	431.1	442.8	454.6	483.0	512.4	542.7	576.1	611.3	648.6	686.8	724.0
145°	441.8	452.6	463.4	489.8	517.3	544.7	574.1	605.4	635.8	668.1	698.5
147.5°	450.7	460.4	470.2	495.7	520.2	545.7	571.2	599.6	626.0	652.5	677.0
150°	459.5	468.3	477.1	499.6	522.2	544.7	568.2	591.7	615.2	636.8	657.4
152.5°	468.3	476.2	484.0	503.6	523.2	542.7	563.3	584.9	604.5	624.1	640.7
155°	476.1	483.4	490.8	507.5	524.1	540.8	557.4	576.1	594.7	610.3	625.0
157.5°	483.0	489.4	495.7	510.4	524.1	536.9	551.6	568.2	582.9	596.6	609.4
160°	489.8	495.2	500.6	512.4	524.1	533.9	545.7	559.4	572.1	582.9	593.7
162.5°	495.7	499.6	503.6	513.4	523.2	531.0	540.8	551.6	561.4	570.2	579.0
165°	499.6	502.6	505.5	514.3	521.2	527.1	533.9	542.7	550.6	557.4	564.3
167.5°	503.6	505.6	507.5	514.3	520.2	523.2	528.1	533.9	539.8	545.7	550.6
170°	505.5	507.0	508.5	513.4	518.3	520.2	523.2	527.1	532.0	534.9	538.8
172.5°	507.5	508.4	509.4	512.4	515.3	516.3	517.3	520.2	523.2	525.1	528.1
175°	508.5	509.0	509.4	511.4	513.4	512.4	513.4	514.3	517.3	518.3	519.2
177.5°	509.4	509.4	509.4	510.4	512.4	510.4	509.4	510.4	512.4	512.4	513.4
180°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

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°	31.8	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	31.8
92.5°	69.6	65.6	64.7	60.7	61.7	59.8	61.7	60.7	64.7	65.6	69.6
95°	145.0	134.2	121.5	113.6	110.7	111.7	110.7	113.6	121.5	134.2	145.0
97.5°	291.0	261.6	223.4	203.8	193.0	187.1	193.0	203.8	223.4	261.6	291.0
100°	579.5	520.2	438.9	396.8	368.4	350.7	368.4	396.8	438.9	520.2	579.5
102.5°	979.7	916.0	825.9	746.5	709.3	683.8	709.3	746.5	825.9	916.0	979.7
105°	1297.6	1281.4	1220.7	1159.9	1117.8	1104.1	1117.8	1159.9	1220.7	1281.4	1297.6
107.5°	1412.7	1432.3	1431.3	1422.5	1409.8	1387.2	1409.8	1422.5	1431.3	1432.3	1412.7
110°	1394.1	1434.3	1476.4	1495.0	1503.8	1502.8	1503.8	1495.0	1476.4	1434.3	1394.1

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	1330.9	1378.4	1441.1	1475.4	1494.0	1500.9	1494.0	1475.4	1441.1	1378.4	1330.9
115°	1253.6	1304.0	1373.5	1418.6	1444.1	1452.9	1444.1	1418.6	1373.5	1304.0	1253.6
117.5°	1179.5	1227.5	1299.1	1347.1	1373.5	1380.4	1373.5	1347.1	1299.1	1227.5	1179.5
120°	1113.4	1158.0	1226.6	1272.6	1301.0	1310.8	1301.0	1272.6	1226.6	1158.0	1113.4
122.5°	1062.0	1101.2	1160.9	1206.0	1230.5	1238.3	1230.5	1206.0	1160.9	1101.2	1062.0
125°	1015.4	1052.2	1109.0	1146.2	1170.7	1178.6	1170.7	1146.2	1109.0	1052.2	1015.4
127.5°	975.8	1010.1	1060.0	1095.3	1116.8	1122.7	1116.8	1095.3	1060.0	1010.1	975.8
130°	935.6	967.9	1015.9	1049.2	1068.8	1076.7	1068.8	1049.2	1015.9	967.9	935.6
132.5°	894.0	923.8	970.9	1004.2	1021.8	1028.7	1021.8	1004.2	970.9	923.8	894.0
135°	853.3	880.7	922.9	955.2	972.8	976.7	972.8	955.2	922.9	880.7	853.3
137.5°	812.2	836.7	876.8	905.2	920.9	926.8	920.9	905.2	876.8	836.7	812.2
140°	776.0	797.5	828.8	854.3	869.0	874.9	869.0	854.3	828.8	797.5	776.0
142.5°	741.2	758.3	787.7	810.2	822.9	822.9	822.9	810.2	787.7	758.3	741.2
145°	712.7	726.9	750.4	767.1	776.9	779.8	776.9	767.1	750.4	726.9	712.7
147.5°	687.8	698.5	719.1	732.8	739.7	741.6	739.7	732.8	719.1	698.5	687.8
150°	666.2	675.0	689.7	701.5	707.3	708.3	707.3	701.5	689.7	675.0	666.2
152.5°	648.0	655.4	666.2	676.0	679.9	679.9	679.9	676.0	666.2	655.4	648.0
155°	630.4	635.8	646.6	653.4	657.4	655.4	657.4	653.4	646.6	635.8	630.4
157.5°	613.8	618.2	626.0	631.9	633.9	633.9	633.9	631.9	626.0	618.2	613.8
160°	597.1	600.5	607.4	612.3	613.3	613.3	613.3	612.3	607.4	600.5	597.1
162.5°	581.4	583.9	590.7	593.7	594.7	593.7	594.7	593.7	590.7	583.9	581.4
165°	566.2	568.2	572.1	576.1	576.1	575.1	576.1	576.1	572.1	568.2	566.2
167.5°	552.6	554.5	556.5	558.4	558.4	557.4	558.4	558.4	556.5	554.5	552.6
170°	539.8	540.8	541.8	544.7	543.7	541.8	543.7	544.7	541.8	540.8	539.8
172.5°	528.6	529.0	530.0	531.0	530.0	529.0	530.0	531.0	530.0	529.0	528.6
175°	519.7	520.2	520.2	521.2	520.2	518.3	520.2	521.2	520.2	520.2	519.7
177.5°	513.4	513.4	513.4	513.4	512.4	510.4	512.4	513.4	513.4	513.4	513.4
180°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

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°	31.3	29.4	31.3	32.3	33.3	32.3	26.5	19.6	14.7	13.2	11.8
92.5°	73.5	84.3	98.9	126.4	150.9	148.9	115.6	78.4	51.9	46.5	41.1
95°	155.8	196.9	256.7	336.0	384.0	340.0	226.3	141.1	96.0	84.2	72.5
97.5°	320.4	419.3	525.1	630.9	626.0	484.0	300.8	182.2	124.4	111.2	98.0
100°	638.8	773.0	894.5	915.0	774.0	532.9	321.3	201.8	149.9	136.2	122.5
102.5°	1043.4	1132.5	1136.4	1020.8	778.8	514.3	322.3	219.4	172.4	158.7	145.0
105°	1313.8	1301.0	1190.3	986.5	725.9	488.9	327.2	240.0	194.0	180.2	166.5
107.5°	1393.1	1297.1	1132.5	914.0	677.0	475.1	338.0	260.6	215.5	201.8	188.1
110°	1353.9	1228.5	1053.2	846.4	643.7	471.2	351.7	281.2	238.1	223.9	209.7

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	1283.4	1147.2	980.7	799.4	622.1	472.2	366.4	300.8	259.6	244.9	230.2
115°	1203.1	1074.7	923.8	762.2	607.4	476.1	381.1	321.3	279.2	266.0	252.8
117.5°	1131.5	1012.0	876.8	736.7	599.6	482.0	396.8	340.0	300.8	287.0	273.3
120°	1068.8	965.0	843.5	717.1	592.7	487.9	412.4	359.5	321.3	307.6	293.9
122.5°	1022.8	925.8	817.1	700.5	588.8	494.7	426.2	378.2	342.9	328.7	314.5
125°	978.7	892.5	791.6	684.8	583.9	501.6	440.9	396.8	361.5	347.8	334.1
127.5°	941.5	859.2	766.1	670.1	581.0	508.5	454.6	414.4	380.1	365.9	351.7
130°	903.3	825.9	741.6	655.4	579.0	516.3	467.3	430.1	395.8	382.1	368.4
132.5°	864.1	794.5	718.1	643.7	578.0	524.1	480.0	443.8	411.5	397.8	384.0
135°	825.9	761.2	696.6	632.9	577.0	530.0	490.8	456.5	425.2	411.5	397.8
137.5°	787.7	734.8	678.9	625.0	577.0	535.9	499.6	467.3	436.0	423.2	410.5
140°	754.4	709.3	662.3	618.2	576.1	539.8	506.5	476.1	446.7	434.0	421.3
142.5°	724.0	686.8	648.6	611.3	576.1	542.7	512.4	483.0	454.6	442.8	431.1
145°	698.5	668.1	635.8	605.4	574.1	544.7	517.3	489.8	463.4	452.6	441.8
147.5°	677.0	652.5	626.0	599.6	571.2	545.7	520.2	495.7	470.2	460.4	450.7
150°	657.4	636.8	615.2	591.7	568.2	544.7	522.2	499.6	477.1	468.3	459.5
152.5°	640.7	624.1	604.5	584.9	563.3	542.7	523.2	503.6	484.0	476.2	468.3
155°	625.0	610.3	594.7	576.1	557.4	540.8	524.1	507.5	490.8	483.4	476.1
157.5°	609.4	596.6	582.9	568.2	551.6	536.9	524.1	510.4	495.7	489.4	483.0
160°	593.7	582.9	572.1	559.4	545.7	533.9	524.1	512.4	500.6	495.2	489.8
162.5°	579.0	570.2	561.4	551.6	540.8	531.0	523.2	513.4	503.6	499.6	495.7
165°	564.3	557.4	550.6	542.7	533.9	527.1	521.2	514.3	505.5	502.6	499.6
167.5°	550.6	545.7	539.8	533.9	528.1	523.2	520.2	514.3	507.5	505.6	503.6
170°	538.8	534.9	532.0	527.1	523.2	520.2	518.3	513.4	508.5	507.0	505.5
172.5°	528.1	525.1	523.2	520.2	517.3	516.3	515.3	512.4	509.4	508.4	507.5
175°	519.2	518.3	517.3	514.3	513.4	512.4	513.4	511.4	509.4	509.0	508.5
177.5°	513.4	512.4	512.4	510.4	509.4	510.4	512.4	510.4	509.4	509.4	509.4
180°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

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°	9.8	7.8	3.9	1.0
92.5°	33.3	28.4	20.6	14.7
95°	56.8	48.0	38.2	34.3
97.5°	80.3	67.6	56.8	50.9
100°	102.9	87.2	78.4	75.4
102.5°	124.4	108.7	99.9	98.0
105°	145.0	130.3	123.4	119.5
107.5°	166.5	152.8	146.0	143.0
110°	189.1	176.3	170.5	166.5



TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	210.6	198.9	192.0	188.1
115°	233.2	221.4	215.5	210.6
117.5°	254.7	243.9	238.1	234.1
120°	274.3	265.5	259.6	255.7
122.5°	294.9	285.1	279.2	276.3
125°	314.5	302.7	296.8	293.9
127.5°	333.1	320.4	312.5	308.6
130°	348.8	335.1	325.3	321.3
132.5°	363.5	348.8	338.0	333.1
135°	375.2	360.5	348.8	344.8
137.5°	388.0	372.3	360.5	355.6
140°	399.7	384.0	372.3	368.4
142.5°	410.5	394.8	384.0	381.1
145°	422.2	407.5	397.8	393.8
147.5°	434.0	420.3	410.5	407.5
150°	444.8	432.0	424.2	421.3
152.5°	454.6	443.8	436.0	435.0
155°	465.4	454.6	448.7	447.7
157.5°	474.2	464.4	459.5	458.5
160°	482.0	474.2	470.2	469.3
162.5°	488.9	483.0	479.1	480.0
165°	494.7	488.9	486.9	487.9
167.5°	499.6	495.7	493.8	494.7
170°	503.6	500.6	499.6	501.6
172.5°	506.5	503.6	504.5	505.5
175°	508.5	506.5	507.5	508.5
177.5°	509.4	507.5	508.5	510.4
180°	509.4	509.4	509.4	509.4

TEST NUMBER: P998320

CATALOG NUMBER: SA2XXDIP-B290D925UB27-4F0-XX-W2A-A4

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	10.70	11.37	11.85	12.50	14.08	8.20	8.86	9.34	9.99	11.57
	3H	11.50	12.10	12.65	13.23	14.83	9.53	10.12	10.68	11.26	12.85
	4H	11.66	12.23	12.82	13.36	14.96	9.98	10.55	11.14	11.68	13.28
	6H	11.70	12.22	12.86	13.36	14.96	10.28	10.80	11.44	11.94	13.55
	8H	11.67	12.16	12.84	13.32	14.92	10.35	10.85	11.52	12.00	13.60
	12H	11.63	12.10	12.80	13.24	14.87	10.39	10.86	11.56	12.01	13.63
4H	2H	10.72	11.29	11.89	12.43	14.02	8.62	9.19	9.79	10.32	11.92
	3H	11.68	12.16	12.86	13.32	14.93	10.06	10.53	11.23	11.70	13.31
	4H	11.95	12.39	13.13	13.54	15.17	10.59	11.02	11.76	12.17	13.80
	6H	12.07	12.44	13.25	13.62	15.24	10.96	11.33	12.14	12.50	14.12
	8H	12.07	12.41	13.24	13.58	15.21	11.06	11.41	12.24	12.58	14.21
	12H	12.02	12.34	13.22	13.51	15.15	11.11	11.43	12.30	12.60	14.24
8H	4H	11.95	12.29	13.12	13.46	15.09	10.72	11.06	11.89	12.23	13.86
	6H	12.12	12.41	13.32	13.61	15.24	11.14	11.43	12.34	12.64	14.27
	8H	12.15	12.40	13.35	13.58	15.23	11.29	11.54	12.49	12.73	14.38
	12H	12.13	12.34	13.33	13.53	15.21	11.38	11.59	12.58	12.78	14.46
12H	4H	11.90	12.21	13.09	13.39	15.03	10.68	11.00	11.87	12.17	13.81
	6H	12.10	12.35	13.30	13.53	15.18	11.14	11.39	12.34	12.58	14.23
	8H	12.12	12.34	13.33	13.52	15.21	11.29	11.51	12.50	12.69	14.38