

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: P998344

Luminaire Tested: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998344
REPORT IS A COMBINATION OF REPORTS P984084 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

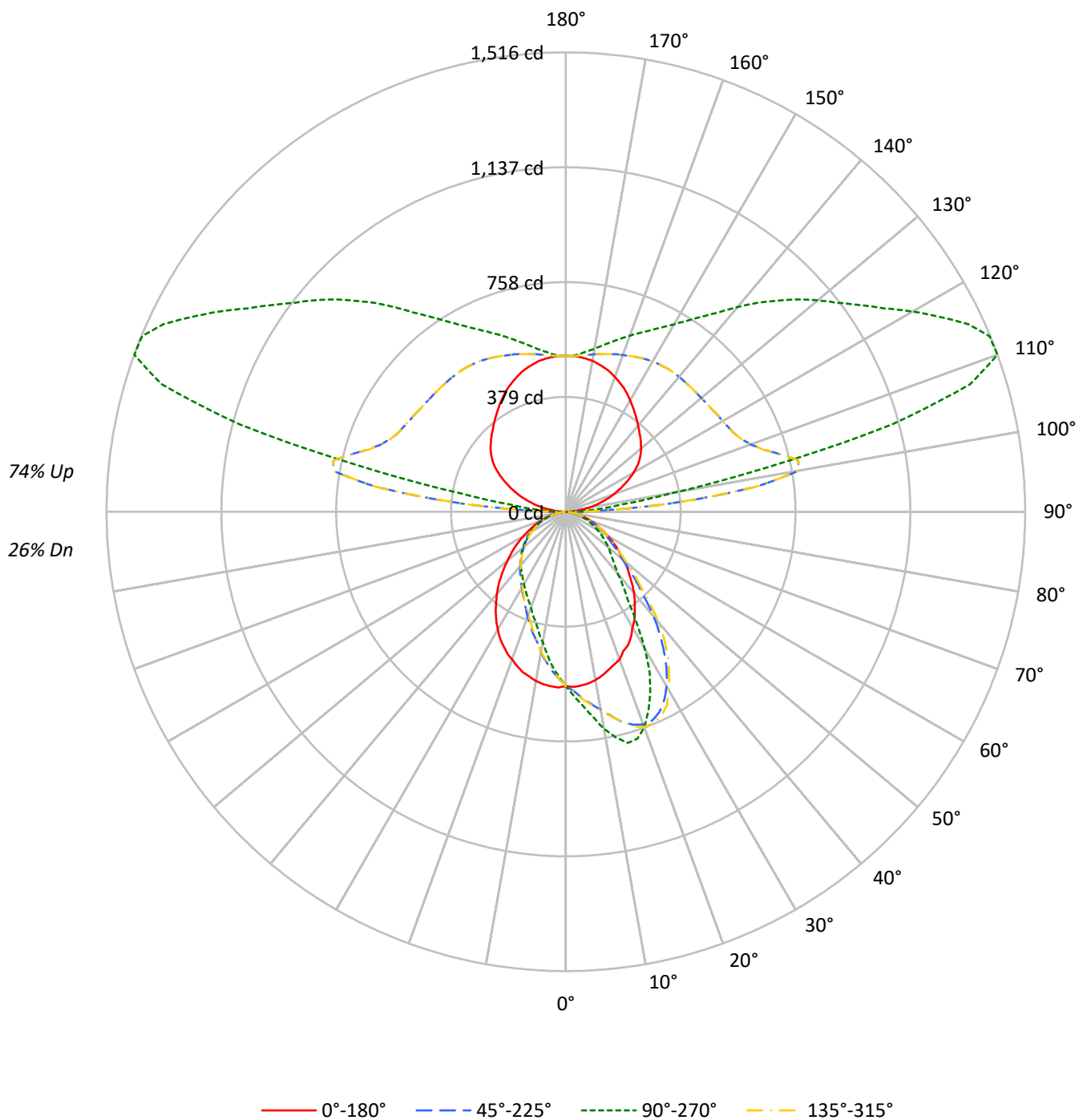
Lumens per Lamp: N/A
Luminaire Lumens: 4850.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	9105	9105	9105	9105
5°	9126	9708	9161	7724
10°	9021	10597	9077	6367
15°	8802	11178	8924	5364
20°	8664	10495	8664	4662
25°	8389	9016	8427	4169
30°	7933	7088	8085	3777
35°	7532	4901	7657	3455
40°	7070	3701	7148	3199
45°	6497	3040	6604	2922
50°	6005	2670	6017	2675
55°	5441	2274	5478	2407
60°	4843	1899	4910	2101
65°	4305	1545	4383	1794
70°	3772	1212	3867	1447
75°	3166	880	3289	1049
80°	2467	557	2651	622
85°	1624	280	1752	207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 9412 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	1.1
10°-20°	159.5	3.3
20°-30°	231.4	4.8
30°-40°	244.0	5.0
40°-50°	215.9	4.5
50°-60°	172.4	3.6
60°-70°	117.1	2.4
70°-80°	59.9	1.2
80°-90°	17.5	0.4
90°-100°	200.3	4.1
100°-110°	705.3	14.5
110°-120°	740.7	15.3
120°-130°	609.4	12.6
130°-140°	489.5	10.1
140°-150°	369.8	7.6
150°-160°	260.0	5.4
160°-170°	153.0	3.2
170°-180°	49.8	1.0
0°-30°	445.7	9.2
0°-40°	689.6	14.2
0°-60°	1077.9	22.2
0°-90°	1272.3	26.2
90°-120°	1646.3	33.9
90°-150°	3115.0	64.2
90°-180°	3578.0	73.8
0°-180°	4850.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	575	575	575	575	575	
5°	576	642	578	511	576	55
15°	541	790	548	379	541	153
25°	486	658	488	304	486	222
35°	397	358	403	252	397	248
45°	298	216	302	207	298	231
55°	204	152	206	160	204	182
65°	121	93	123	108	121	120
75°	57	46	59	55	57	61
85°	12	12	12	9	12	13
90°	1	33	1	33	1	3
95°	35	113	35	113	35	36
105°	120	1113	120	1113	120	128
115°	212	1465	212	1465	212	211
125°	296	1188	296	1188	296	263
135°	348	985	348	985	348	269
145°	397	786	397	786	397	249
155°	452	661	452	661	452	208
165°	492	580	492	580	492	139
175°	513	523	513	523	513	49
180°	514	514	514	514	514	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	578.3	579.6	581.8	582.2	586.7	590.2	594.2	594.2	595.5	595.1	591.5
5°	575.6	579.6	585.3	590.2	598.2	601.7	607.0	611.0	614.5	617.2	616.7
7.5°	571.2	578.3	586.7	595.9	606.6	612.7	620.3	627.3	632.2	636.6	639.7
10°	563.7	575.6	587.1	599.5	613.2	621.6	630.4	639.7	647.2	655.6	663.6
12.5°	553.5	570.7	584.9	601.3	618.1	627.3	641.5	648.6	663.1	684.4	690.1
15°	540.7	564.1	577.4	598.2	620.3	627.8	647.2	658.7	688.8	702.1	718.0
17.5°	528.7	554.8	572.5	596.4	618.1	632.6	651.7	675.1	700.3	719.3	737.0
20°	519.0	544.2	565.4	592.0	619.4	637.9	657.8	686.1	713.5	733.0	746.7
22.5°	496.9	529.2	553.9	583.6	616.7	642.4	661.4	692.3	721.9	733.9	745.8
25°	485.9	513.7	542.5	576.1	615.0	645.5	661.8	696.3	722.4	726.8	729.5
27.5°	465.5	496.9	530.5	569.0	614.5	640.2	660.9	692.3	713.1	710.0	702.1
30°	440.3	478.8	515.9	557.5	608.3	636.2	655.6	684.4	695.0	679.1	664.9
32.5°	421.8	458.0	499.1	547.3	601.3	627.8	646.8	669.3	671.5	642.8	618.9
35°	396.6	436.8	483.2	534.1	589.3	613.2	630.9	644.6	634.0	593.7	565.4
37.5°	374.0	413.8	463.3	515.0	573.0	596.4	610.5	612.7	586.7	551.3	509.7
40°	349.3	390.4	442.1	496.5	554.8	575.2	584.0	577.4	539.8	498.7	450.5
42.5°	324.5	365.2	420.9	476.6	531.8	549.1	552.6	534.5	488.5	440.3	384.6
45°	297.5	340.0	395.7	451.8	505.3	515.0	515.5	489.4	435.0	384.6	332.9
47.5°	275.4	314.8	370.0	426.2	471.3	477.9	475.3	445.2	386.0	329.4	284.3
50°	251.1	288.7	343.5	398.8	437.2	439.0	432.4	389.5	331.6	279.8	244.0
52.5°	225.0	263.0	313.4	366.5	401.0	398.3	385.5	339.5	285.2	242.3	214.9
55°	204.2	237.8	285.2	336.9	361.2	353.7	339.5	292.7	249.8	213.5	189.7
57.5°	181.3	210.9	257.3	302.4	316.5	309.5	295.3	251.6	211.8	184.4	168.4
60°	159.6	186.6	227.2	264.8	275.9	268.4	252.0	212.6	183.9	160.9	149.0
62.5°	139.7	163.1	197.2	231.7	236.1	228.6	214.4	182.6	157.8	139.7	130.9
65°	121.1	143.2	170.6	196.7	200.7	192.8	178.2	155.2	134.4	122.9	114.5
67.5°	103.0	120.7	145.0	164.0	166.2	158.7	146.8	128.2	115.4	103.0	96.8
70°	87.1	100.4	119.4	134.8	135.7	128.7	122.5	105.7	95.9	87.1	82.2
72.5°	71.6	80.9	95.5	107.0	107.4	103.0	97.3	86.7	78.3	72.1	67.2
75°	56.6	64.5	73.4	83.6	83.1	79.6	75.2	68.5	61.5	57.5	55.3
77.5°	43.3	48.2	55.3	61.9	61.9	60.1	57.5	52.6	48.2	44.2	42.0
80°	30.9	34.0	39.8	42.0	42.9	42.4	40.2	36.7	34.9	31.8	30.9
82.5°	19.9	22.1	24.8	27.0	28.3	27.4	27.0	25.2	22.5	21.7	20.8
85°	11.5	12.4	13.7	15.0	15.5	15.0	15.9	14.6	13.3	13.3	12.8
87.5°	4.9	5.3	6.2	6.2	6.6	6.6	6.2	6.6	6.6	6.2	5.7
90°	1.0	4.0	7.9	9.9	11.9	13.4	14.8	19.8	26.7	32.6	33.6
92.5°	14.8	20.7	28.7	33.6	41.5	47.0	52.4	79.0	116.6	150.2	152.1
95°	34.6	38.5	48.4	57.3	73.1	84.9	96.8	142.3	228.2	342.8	387.3
97.5°	51.4	57.3	68.2	81.0	98.8	112.2	125.5	183.8	303.3	488.1	631.3
100°	76.1	79.0	87.9	103.7	123.5	137.4	151.2	203.5	324.1	537.5	780.5
102.5°	98.8	100.8	109.7	125.5	146.2	160.0	173.9	221.3	325.0	518.7	785.4
105°	120.5	124.5	131.4	146.2	168.0	181.8	195.6	242.1	330.0	493.0	732.1
107.5°	144.2	147.2	154.1	168.0	189.7	203.6	217.4	262.8	340.8	479.2	682.7
110°	168.0	171.9	177.8	190.7	211.4	225.8	240.1	283.5	354.7	475.2	649.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	189.7	193.6	200.6	212.4	232.2	247.0	261.8	303.3	369.5	476.2	627.4
115°	212.4	217.4	223.3	235.1	254.9	268.2	281.6	324.1	384.3	480.1	612.5
117.5°	236.1	240.1	246.0	256.9	275.6	289.5	303.3	342.8	400.1	486.1	604.6
120°	257.9	261.8	267.7	276.6	296.4	310.2	324.1	362.6	415.9	492.0	597.7
122.5°	278.6	281.6	287.5	297.4	317.1	331.5	345.8	381.4	429.8	498.9	593.8
125°	296.4	299.4	305.3	317.1	336.9	350.8	364.6	400.1	444.6	505.8	588.8
127.5°	311.2	315.2	323.1	335.9	354.7	369.0	383.3	417.9	458.4	512.8	585.9
130°	324.1	328.0	337.9	351.7	371.5	385.3	399.1	433.7	471.3	520.7	583.9
132.5°	335.9	340.8	351.7	366.5	387.3	401.1	414.9	447.5	484.1	528.6	582.9
135°	347.8	351.7	363.6	378.4	401.1	415.0	428.8	460.4	495.0	534.5	581.9
137.5°	358.6	363.6	375.4	391.2	414.0	426.8	439.6	471.3	503.9	540.4	581.9
140°	371.5	375.4	387.3	403.1	424.8	437.6	450.5	480.1	510.8	544.4	580.9
142.5°	384.3	387.3	398.1	414.0	434.7	446.6	458.4	487.1	516.7	547.3	580.9
145°	397.2	401.1	411.0	425.8	445.6	456.4	467.3	494.0	521.6	549.3	578.9
147.5°	411.0	414.0	423.8	437.7	454.5	464.4	474.2	499.9	524.6	550.3	576.0
150°	424.8	427.8	435.7	448.5	463.4	472.2	481.1	503.9	526.6	549.3	573.0
152.5°	438.7	439.6	447.5	458.4	472.2	480.2	488.1	507.8	527.6	547.3	568.1
155°	451.5	452.5	458.4	469.3	480.1	487.6	495.0	511.8	528.6	545.4	562.2
157.5°	462.4	463.4	468.3	478.2	487.1	493.5	499.9	514.7	528.6	541.4	556.2
160°	473.2	474.2	478.2	486.1	494.0	499.4	504.8	516.7	528.6	538.4	550.3
162.5°	484.1	483.1	487.1	493.0	499.9	503.8	507.8	517.7	527.6	535.5	545.4
165°	492.0	491.0	493.0	498.9	503.9	506.8	509.8	518.7	525.6	531.5	538.4
167.5°	498.9	497.9	499.9	503.9	507.8	509.8	511.8	518.7	524.6	527.6	532.5
170°	505.8	503.9	504.8	507.8	509.8	511.3	512.8	517.7	522.6	524.6	527.6
172.5°	509.8	508.8	507.8	510.8	511.8	512.8	513.7	516.7	519.7	520.7	521.6
175°	512.8	511.8	510.8	512.8	512.8	513.2	513.7	515.7	517.7	516.7	517.7
177.5°	514.7	512.8	511.8	513.7	513.7	513.7	513.7	514.7	516.7	514.7	513.7
180°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	597.7	598.2	599.0	603.5	605.7	606.1	604.3	608.3	609.7	608.3	607.4
5°	626.0	628.7	634.0	639.7	639.3	639.7	642.4	645.0	645.9	642.4	643.7
7.5°	650.8	656.1	661.8	670.7	670.7	675.1	676.9	679.1	684.4	681.7	680.8
10°	679.1	686.1	696.7	710.9	711.3	715.8	720.2	727.3	729.5	727.7	728.6
12.5°	714.4	728.1	729.0	744.5	751.6	752.5	759.5	758.2	762.6	762.6	770.1
15°	729.9	751.1	763.1	778.1	782.5	777.2	783.0	789.1	789.6	789.6	789.1
17.5°	757.8	766.2	778.1	786.1	787.8	787.8	788.3	790.9	789.1	785.6	788.3
20°	763.5	767.0	771.5	770.6	771.5	767.0	762.6	758.2	758.6	756.4	763.1
22.5°	752.9	752.0	741.8	735.2	735.2	726.4	718.0	714.0	710.0	711.3	713.5
25°	726.4	712.7	700.3	690.6	688.3	674.2	662.7	659.2	652.5	657.8	658.7
27.5°	683.9	668.5	648.6	640.2	628.7	622.9	615.0	604.3	590.6	598.6	597.3
30°	638.4	615.4	599.0	578.7	560.6	559.3	544.2	526.5	519.5	519.5	523.4
32.5°	587.5	557.0	533.2	504.4	486.8	479.2	461.1	443.4	447.4	434.1	439.0
35°	528.3	488.1	458.0	430.2	416.9	408.1	384.6	374.9	364.3	358.1	369.6
37.5°	471.7	425.3	386.8	356.3	351.5	335.6	319.6	313.4	307.3	309.9	309.5
40°	402.8	361.6	327.2	303.3	294.9	287.4	276.8	269.2	265.3	267.5	267.9
42.5°	340.4	305.9	280.3	263.5	256.4	251.1	245.8	239.6	238.3	238.3	240.1
45°	292.2	263.9	246.7	233.0	229.0	225.0	221.0	218.4	217.5	215.7	217.1
47.5°	253.8	231.2	220.6	210.4	206.0	205.1	201.6	200.3	198.5	198.1	198.5
50°	221.5	207.3	197.6	191.9	188.8	187.4	185.7	183.0	182.1	184.4	183.5
52.5°	198.9	185.7	180.4	174.6	172.9	171.1	168.4	168.9	168.4	167.6	167.6
55°	176.4	168.0	162.7	158.3	157.8	156.1	153.9	153.0	152.5	151.6	153.0
57.5°	158.3	151.6	146.8	142.8	141.0	141.0	138.8	137.1	137.1	136.6	137.1
60°	140.1	133.5	130.4	126.4	125.1	124.7	123.3	122.5	121.1	121.1	121.1
62.5°	123.3	118.0	114.5	111.0	111.4	109.2	107.4	106.5	106.5	107.0	107.0
65°	107.4	103.9	99.5	96.4	95.5	95.1	94.2	93.7	92.4	93.3	93.3
67.5°	92.8	88.0	85.3	84.0	82.7	82.2	81.3	80.5	80.0	79.6	80.5
70°	78.3	74.3	72.1	71.2	69.9	69.4	69.0	67.6	68.1	68.5	69.0
72.5°	65.0	61.5	61.0	58.4	58.4	58.4	56.6	57.5	57.0	56.1	57.0
75°	51.3	49.5	48.6	47.3	47.7	47.3	46.9	45.5	45.5	46.0	46.4
77.5°	40.7	38.9	38.5	37.1	36.3	37.1	36.3	35.8	35.8	36.3	36.3
80°	30.1	29.2	27.9	27.9	27.9	27.4	27.4	27.4	27.0	26.5	27.0
82.5°	19.9	19.9	19.5	19.0	19.5	18.6	19.0	19.0	19.0	19.0	19.0
85°	12.8	12.4	12.4	11.9	11.9	11.9	12.4	11.5	11.5	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°	32.6	31.6	29.6	31.6	32.1	32.6	32.6	32.6	32.6	32.6	32.6
92.5°	127.4	99.8	85.0	74.1	70.2	66.2	65.2	61.3	62.2	60.3	62.2
95°	338.9	258.8	198.6	157.1	146.2	135.4	122.5	114.6	111.6	112.6	111.6
97.5°	636.2	529.5	422.8	323.1	293.5	263.8	225.3	205.5	194.6	188.7	194.6
100°	922.8	902.0	779.5	644.2	584.4	524.6	442.6	400.1	371.5	353.7	371.5
102.5°	1029.5	1146.0	1142.1	1052.2	988.0	923.7	832.9	752.8	715.3	689.6	715.3
105°	994.9	1200.4	1312.0	1324.9	1308.6	1292.3	1231.0	1169.7	1127.3	1113.4	1127.3
107.5°	921.8	1142.1	1308.1	1404.9	1424.6	1444.4	1443.4	1434.5	1421.7	1399.0	1421.7
110°	853.6	1062.1	1238.9	1365.4	1405.9	1446.4	1488.9	1507.6	1516.5	1515.5	1516.5

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	806.2	988.9	1156.9	1294.2	1342.2	1390.1	1453.3	1487.9	1506.6	1513.6	1506.6
115°	768.6	931.6	1083.8	1213.2	1264.1	1315.0	1385.1	1430.6	1456.3	1465.1	1456.3
117.5°	742.9	884.2	1020.6	1141.1	1189.5	1237.9	1310.0	1358.4	1385.1	1392.0	1385.1
120°	723.2	850.6	973.1	1077.9	1122.8	1167.8	1236.9	1283.4	1312.0	1321.9	1312.0
122.5°	706.4	824.0	933.6	1031.4	1071.0	1110.5	1170.7	1216.2	1240.9	1248.8	1240.9
125°	690.6	798.3	900.0	987.0	1024.0	1061.1	1118.4	1155.9	1180.6	1188.5	1180.6
127.5°	675.8	772.6	866.4	949.4	984.0	1018.6	1069.0	1104.5	1126.3	1132.2	1126.3
130°	660.9	747.9	832.9	910.9	943.5	976.1	1024.5	1058.1	1077.9	1085.8	1077.9
132.5°	649.1	724.2	801.2	871.4	901.5	931.6	979.1	1012.7	1030.4	1037.4	1030.4
135°	638.2	702.4	767.6	832.9	860.6	888.2	930.7	963.3	981.0	985.0	981.0
137.5°	630.3	684.7	741.0	794.3	819.0	843.7	884.2	912.9	928.7	934.6	928.7
140°	623.4	667.9	715.3	760.7	782.4	804.2	835.8	861.5	876.3	882.2	876.3
142.5°	616.5	654.0	692.6	730.1	747.4	764.7	794.3	817.0	829.9	829.9	829.9
145°	610.6	641.2	673.8	704.4	718.8	733.1	756.8	773.6	783.5	786.4	783.5
147.5°	604.6	631.3	658.0	682.7	693.6	704.4	725.2	739.0	745.9	747.9	745.9
150°	596.7	620.4	642.2	662.9	671.8	680.7	695.5	707.4	713.3	714.3	713.3
152.5°	589.8	609.6	629.3	646.1	653.5	660.9	671.8	681.7	685.6	685.6	685.6
155°	580.9	599.7	615.5	630.3	635.8	641.2	652.1	659.0	662.9	660.9	662.9
157.5°	573.0	587.8	601.7	614.5	619.0	623.4	631.3	637.2	639.2	639.2	639.2
160°	564.1	577.0	587.8	598.7	602.2	605.6	612.5	617.5	618.5	618.5	618.5
162.5°	556.2	566.1	575.0	583.9	586.3	588.8	595.7	598.7	599.7	598.7	599.7
165°	547.3	555.2	562.2	569.1	571.0	573.0	577.0	580.9	580.9	579.9	580.9
167.5°	538.4	544.4	550.3	555.2	557.2	559.2	561.2	563.1	563.1	562.2	563.1
170°	531.5	536.5	539.4	543.4	544.4	545.4	546.3	549.3	548.3	546.3	548.3
172.5°	524.6	527.6	529.5	532.5	533.0	533.5	534.5	535.5	534.5	533.5	534.5
175°	518.7	521.6	522.6	523.6	524.1	524.6	524.6	525.6	524.6	522.6	524.6
177.5°	514.7	516.7	516.7	517.7	517.7	517.7	517.7	517.7	516.7	514.7	516.7
180°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	609.7	606.6	603.9	604.3	606.6	604.8	600.4	594.6	592.4	589.8	592.4
5°	646.3	643.7	638.4	638.8	637.5	635.7	628.7	619.8	619.8	612.7	611.9
7.5°	682.6	678.6	675.1	674.2	669.3	665.8	659.6	647.2	642.4	634.0	629.1
10°	723.3	720.2	716.2	711.3	708.7	702.5	692.3	674.2	665.4	653.9	645.5
12.5°	764.4	763.9	755.1	745.4	744.9	735.2	728.1	703.8	691.9	676.4	656.5
15°	790.5	788.3	783.4	778.5	779.9	769.3	753.3	724.6	716.6	698.1	676.9
17.5°	790.0	790.0	788.7	787.8	786.5	783.4	774.6	755.5	742.7	719.3	699.4
20°	764.8	770.6	771.9	771.5	775.9	778.1	777.7	765.7	755.5	734.8	714.4
22.5°	714.4	727.7	733.4	737.0	746.3	751.1	762.6	758.2	755.5	740.1	722.8
25°	667.6	672.0	689.2	690.1	702.9	714.9	726.4	733.9	743.6	737.9	723.3
27.5°	607.0	617.2	629.5	638.8	641.5	665.8	684.8	699.0	721.1	722.8	718.0
30°	538.5	543.3	563.7	576.1	590.2	607.9	635.3	659.6	679.5	697.6	703.8
32.5°	454.9	474.8	486.8	501.8	514.2	545.5	579.1	610.5	633.5	664.0	677.3
35°	378.4	393.9	414.2	420.4	443.0	469.5	513.3	553.5	588.4	619.4	646.3
37.5°	315.2	327.6	349.3	359.0	372.2	406.3	443.0	492.9	534.9	573.0	606.6
40°	271.9	281.2	297.5	300.6	311.7	342.6	372.2	419.1	474.8	526.1	562.8
42.5°	242.3	246.7	257.7	261.7	268.8	289.6	316.1	360.3	412.0	465.1	516.8
45°	221.0	224.1	230.8	234.3	243.2	252.4	274.1	309.5	350.1	403.6	459.3
47.5°	202.0	206.0	208.7	210.9	215.7	225.9	240.1	266.1	305.0	354.1	408.1
50°	186.1	187.4	192.3	192.8	195.8	202.5	215.7	231.7	262.6	302.4	354.6
52.5°	170.2	171.5	174.6	177.7	179.0	184.4	193.2	206.5	229.4	260.8	307.3
55°	154.3	156.1	159.2	161.4	162.7	167.1	172.4	185.2	203.4	225.5	263.5
57.5°	138.4	142.4	143.2	144.6	146.8	151.6	156.5	164.0	178.2	198.5	226.4
60°	123.3	124.7	127.8	129.1	131.3	134.0	140.1	145.9	156.1	172.0	197.2
62.5°	107.9	111.0	112.3	113.6	115.4	118.5	122.5	128.7	137.5	150.3	170.2
65°	94.6	95.1	97.7	99.5	101.2	103.5	107.4	113.2	118.5	130.4	145.0
67.5°	81.8	82.7	83.6	85.3	87.5	89.7	93.3	96.4	103.0	111.0	122.5
70°	69.4	69.4	71.6	72.9	72.5	75.2	77.8	81.3	86.2	93.7	103.0
72.5°	58.4	57.9	59.7	60.1	61.0	62.8	64.5	68.1	70.7	76.5	83.6
75°	46.4	47.3	48.2	48.2	49.5	50.8	52.6	54.4	57.5	61.0	66.3
77.5°	36.7	36.7	37.6	38.0	39.3	38.9	40.7	42.4	44.7	47.7	51.7
80°	27.0	27.9	27.9	27.9	28.3	28.7	30.5	31.8	33.2	35.4	37.1
82.5°	19.0	19.0	19.9	19.9	19.9	20.8	20.8	21.2	22.1	23.4	24.8
85°	11.9	11.9	11.9	12.4	11.9	12.4	13.3	12.8	13.3	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°	32.6	32.6	32.6	32.1	31.6	29.6	31.6	32.6	33.6	32.6	26.7
92.5°	61.3	65.2	66.2	70.2	74.1	85.0	99.8	127.4	152.1	150.2	116.6
95°	114.6	122.5	135.4	146.2	157.1	198.6	258.8	338.9	387.3	342.8	228.2
97.5°	205.5	225.3	263.8	293.5	323.1	422.8	529.5	636.2	631.3	488.1	303.3
100°	400.1	442.6	524.6	584.4	644.2	779.5	902.0	922.8	780.5	537.5	324.1
102.5°	752.8	832.9	923.7	988.0	1052.2	1142.1	1146.0	1029.5	785.4	518.7	325.0
105°	1169.7	1231.0	1292.3	1308.6	1324.9	1312.0	1200.4	994.9	732.1	493.0	330.0
107.5°	1434.5	1443.4	1444.4	1424.6	1404.9	1308.1	1142.1	921.8	682.7	479.2	340.8
110°	1507.6	1488.9	1446.4	1405.9	1365.4	1238.9	1062.1	853.6	649.1	475.2	354.7

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	1487.9	1453.3	1390.1	1342.2	1294.2	1156.9	988.9	806.2	627.4	476.2	369.5
115°	1430.6	1385.1	1315.0	1264.1	1213.2	1083.8	931.6	768.6	612.5	480.1	384.3
117.5°	1358.4	1310.0	1237.9	1189.5	1141.1	1020.6	884.2	742.9	604.6	486.1	400.1
120°	1283.4	1236.9	1167.8	1122.8	1077.9	973.1	850.6	723.2	597.7	492.0	415.9
122.5°	1216.2	1170.7	1110.5	1071.0	1031.4	933.6	824.0	706.4	593.8	498.9	429.8
125°	1155.9	1118.4	1061.1	1024.0	987.0	900.0	798.3	690.6	588.8	505.8	444.6
127.5°	1104.5	1069.0	1018.6	984.0	949.4	866.4	772.6	675.8	585.9	512.8	458.4
130°	1058.1	1024.5	976.1	943.5	910.9	832.9	747.9	660.9	583.9	520.7	471.3
132.5°	1012.7	979.1	931.6	901.5	871.4	801.2	724.2	649.1	582.9	528.6	484.1
135°	963.3	930.7	888.2	860.6	832.9	767.6	702.4	638.2	581.9	534.5	495.0
137.5°	912.9	884.2	843.7	819.0	794.3	741.0	684.7	630.3	581.9	540.4	503.9
140°	861.5	835.8	804.2	782.4	760.7	715.3	667.9	623.4	580.9	544.4	510.8
142.5°	817.0	794.3	764.7	747.4	730.1	692.6	654.0	616.5	580.9	547.3	516.7
145°	773.6	756.8	733.1	718.8	704.4	673.8	641.2	610.6	578.9	549.3	521.6
147.5°	739.0	725.2	704.4	693.6	682.7	658.0	631.3	604.6	576.0	550.3	524.6
150°	707.4	695.5	680.7	671.8	662.9	642.2	620.4	596.7	573.0	549.3	526.6
152.5°	681.7	671.8	660.9	653.5	646.1	629.3	609.6	589.8	568.1	547.3	527.6
155°	659.0	652.1	641.2	635.8	630.3	615.5	599.7	580.9	562.2	545.4	528.6
157.5°	637.2	631.3	623.4	619.0	614.5	601.7	587.8	573.0	556.2	541.4	528.6
160°	617.5	612.5	605.6	602.2	598.7	587.8	577.0	564.1	550.3	538.4	528.6
162.5°	598.7	595.7	588.8	586.3	583.9	575.0	566.1	556.2	545.4	535.5	527.6
165°	580.9	577.0	573.0	571.0	569.1	562.2	555.2	547.3	538.4	531.5	525.6
167.5°	563.1	561.2	559.2	557.2	555.2	550.3	544.4	538.4	532.5	527.6	524.6
170°	549.3	546.3	545.4	544.4	543.4	539.4	536.5	531.5	527.6	524.6	522.6
172.5°	535.5	534.5	533.5	533.0	532.5	529.5	527.6	524.6	521.6	520.7	519.7
175°	525.6	524.6	524.6	524.1	523.6	522.6	521.6	518.7	517.7	516.7	517.7
177.5°	517.7	517.7	517.7	517.7	517.7	516.7	516.7	514.7	513.7	514.7	516.7
180°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	590.2	588.0	586.7	587.5	584.9	578.3	578.3	580.5	577.8	575.2	571.2
5°	606.6	602.1	599.5	599.0	592.9	582.2	580.0	577.8	572.1	565.9	559.3
7.5°	622.5	614.5	610.1	607.0	598.2	584.5	578.7	573.8	564.6	555.3	546.9
10°	635.7	624.2	618.9	614.1	602.6	585.3	576.1	567.2	555.3	543.3	532.7
12.5°	646.3	633.1	626.5	619.4	605.2	582.7	571.2	557.0	545.1	529.2	518.6
15°	664.0	636.6	630.4	623.8	609.2	578.3	564.1	548.2	531.8	510.6	499.1
17.5°	678.2	641.5	641.0	626.9	607.9	576.5	554.8	534.1	516.4	495.2	477.0
20°	686.6	649.0	641.9	627.3	603.5	564.6	542.0	519.0	500.0	474.4	456.2
22.5°	693.7	659.6	641.0	623.4	594.2	560.6	527.4	505.8	479.7	451.8	434.6
25°	696.3	661.8	642.4	622.0	587.5	549.1	511.5	488.1	458.9	433.7	410.3
27.5°	696.7	661.4	637.5	616.3	578.3	534.1	495.6	470.8	438.6	409.4	386.0
30°	692.3	656.5	634.9	611.9	569.4	520.3	476.1	448.7	414.2	385.1	360.8
32.5°	679.1	646.8	629.1	603.9	557.9	501.3	457.6	427.1	390.8	362.1	338.6
35°	657.0	634.9	615.4	592.0	542.9	483.7	439.0	403.2	366.5	339.1	317.0
37.5°	629.5	617.6	599.5	576.5	525.7	467.7	418.2	378.4	341.7	315.2	293.6
40°	592.4	595.5	577.8	557.0	505.3	446.1	391.3	353.2	318.8	294.0	272.8
42.5°	552.2	565.0	554.8	534.9	482.8	422.2	371.4	329.4	295.8	270.1	252.4
45°	508.9	531.0	524.8	510.2	459.3	397.0	343.1	302.4	272.8	248.0	232.5
47.5°	461.6	492.9	492.9	482.3	433.3	371.8	318.8	277.2	248.0	230.3	215.3
50°	413.4	448.7	454.5	447.4	404.1	343.1	289.1	251.6	226.4	209.1	198.1
52.5°	363.0	404.1	414.7	411.2	373.1	315.7	264.8	228.1	205.1	190.1	180.4
55°	314.8	362.5	374.0	375.3	340.0	285.6	237.8	205.6	183.5	173.3	164.9
57.5°	269.2	315.2	328.0	330.2	306.4	258.2	212.6	184.4	164.5	156.1	149.4
60°	230.3	268.8	285.6	290.5	269.7	226.4	189.2	161.8	146.8	138.8	132.6
62.5°	198.5	229.4	247.1	248.5	239.2	198.5	164.9	141.9	129.1	122.0	118.9
65°	167.6	195.4	206.0	211.3	203.8	172.0	142.4	123.3	113.2	107.0	103.9
67.5°	142.8	160.5	169.3	176.4	168.9	145.0	121.1	105.7	98.1	92.0	90.2
70°	117.2	131.7	138.4	145.5	138.8	120.7	103.5	89.3	82.7	77.8	75.6
72.5°	93.7	105.2	111.4	115.8	111.9	96.8	82.7	72.9	68.1	64.5	63.2
75°	74.3	82.2	85.8	88.9	87.1	75.6	66.8	58.8	54.4	51.3	50.4
77.5°	56.6	62.3	66.3	67.2	65.0	57.5	50.0	45.1	41.6	39.8	38.9
80°	40.2	43.8	46.0	47.3	45.1	42.0	36.7	33.2	30.1	27.9	27.4
82.5°	27.0	28.7	30.5	30.1	29.2	26.5	23.4	21.7	20.3	18.6	18.6
85°	15.5	15.9	16.8	17.2	16.8	15.0	13.3	12.4	11.5	10.2	10.2
87.5°	6.6	7.1	7.1	7.5	6.6	6.6	5.7	4.9	4.9	4.4	4.0
90°	19.8	14.8	13.4	11.9	9.9	7.9	4.0	1.0	4.0	7.9	9.9
92.5°	79.0	52.4	47.0	41.5	33.6	28.7	20.7	14.8	20.7	28.7	33.6
95°	142.3	96.8	84.9	73.1	57.3	48.4	38.5	34.6	38.5	48.4	57.3
97.5°	183.8	125.5	112.2	98.8	81.0	68.2	57.3	51.4	57.3	68.2	81.0
100°	203.5	151.2	137.4	123.5	103.7	87.9	79.0	76.1	79.0	87.9	103.7
102.5°	221.3	173.9	160.0	146.2	125.5	109.7	100.8	98.8	100.8	109.7	125.5
105°	242.1	195.6	181.8	168.0	146.2	131.4	124.5	120.5	124.5	131.4	146.2
107.5°	262.8	217.4	203.6	189.7	168.0	154.1	147.2	144.2	147.2	154.1	168.0
110°	283.5	240.1	225.8	211.4	190.7	177.8	171.9	168.0	171.9	177.8	190.7

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	303.3	261.8	247.0	232.2	212.4	200.6	193.6	189.7	193.6	200.6	212.4
115°	324.1	281.6	268.2	254.9	235.1	223.3	217.4	212.4	217.4	223.3	235.1
117.5°	342.8	303.3	289.5	275.6	256.9	246.0	240.1	236.1	240.1	246.0	256.9
120°	362.6	324.1	310.2	296.4	276.6	267.7	261.8	257.9	261.8	267.7	276.6
122.5°	381.4	345.8	331.5	317.1	297.4	287.5	281.6	278.6	281.6	287.5	297.4
125°	400.1	364.6	350.8	336.9	317.1	305.3	299.4	296.4	299.4	305.3	317.1
127.5°	417.9	383.3	369.0	354.7	335.9	323.1	315.2	311.2	315.2	323.1	335.9
130°	433.7	399.1	385.3	371.5	351.7	337.9	328.0	324.1	328.0	337.9	351.7
132.5°	447.5	414.9	401.1	387.3	366.5	351.7	340.8	335.9	340.8	351.7	366.5
135°	460.4	428.8	415.0	401.1	378.4	363.6	351.7	347.8	351.7	363.6	378.4
137.5°	471.3	439.6	426.8	414.0	391.2	375.4	363.6	358.6	363.6	375.4	391.2
140°	480.1	450.5	437.6	424.8	403.1	387.3	375.4	371.5	375.4	387.3	403.1
142.5°	487.1	458.4	446.6	434.7	414.0	398.1	387.3	384.3	387.3	398.1	414.0
145°	494.0	467.3	456.4	445.6	425.8	411.0	401.1	397.2	401.1	411.0	425.8
147.5°	499.9	474.2	464.4	454.5	437.7	423.8	414.0	411.0	414.0	423.8	437.7
150°	503.9	481.1	472.2	463.4	448.5	435.7	427.8	424.8	427.8	435.7	448.5
152.5°	507.8	488.1	480.2	472.2	458.4	447.5	439.6	438.7	439.6	447.5	458.4
155°	511.8	495.0	487.6	480.1	469.3	458.4	452.5	451.5	452.5	458.4	469.3
157.5°	514.7	499.9	493.5	487.1	478.2	468.3	463.4	462.4	463.4	468.3	478.2
160°	516.7	504.8	499.4	494.0	486.1	478.2	474.2	473.2	474.2	478.2	486.1
162.5°	517.7	507.8	503.8	499.9	493.0	487.1	483.1	484.1	483.1	487.1	493.0
165°	518.7	509.8	506.8	503.9	498.9	493.0	491.0	492.0	491.0	493.0	498.9
167.5°	518.7	511.8	509.8	507.8	503.9	499.9	497.9	498.9	497.9	499.9	503.9
170°	517.7	512.8	511.3	509.8	507.8	504.8	503.9	505.8	503.9	504.8	507.8
172.5°	516.7	513.7	512.8	511.8	510.8	507.8	508.8	509.8	508.8	507.8	510.8
175°	515.7	513.7	513.2	512.8	512.8	510.8	511.8	512.8	511.8	510.8	512.8
177.5°	514.7	513.7	513.7	513.7	513.7	511.8	512.8	514.7	512.8	511.8	513.7
180°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	569.0	571.2	570.7	566.3	561.5	557.5	550.0	550.9	548.2	548.6	551.3
5°	554.8	554.8	553.1	546.9	538.9	534.5	526.1	523.9	518.6	518.1	517.7
7.5°	539.8	537.6	535.4	526.5	516.8	509.7	498.2	495.6	490.3	486.8	485.0
10°	522.1	519.0	514.6	504.4	492.5	483.7	471.7	468.2	458.0	453.6	450.9
12.5°	502.7	500.9	493.8	485.4	466.0	456.2	439.0	442.5	432.4	423.5	422.2
15°	483.2	476.6	472.6	458.9	435.5	431.0	417.3	410.3	401.0	393.9	393.9
17.5°	464.2	454.0	445.2	430.6	413.4	401.0	390.8	387.3	375.8	368.7	367.4
20°	439.0	427.5	425.3	404.5	392.6	378.9	369.2	360.3	351.9	348.8	346.6
22.5°	415.1	401.9	398.3	380.6	368.7	355.0	345.3	339.1	332.9	330.7	326.7
25°	389.5	381.5	376.2	357.2	344.0	331.1	324.5	320.1	314.3	313.9	311.2
27.5°	364.7	357.2	351.9	333.8	324.1	312.1	306.8	302.0	298.9	297.5	296.2
30°	343.5	335.1	328.9	315.7	303.7	294.0	289.6	286.5	284.7	282.5	282.1
32.5°	320.1	315.2	306.8	296.6	287.4	278.1	275.4	273.2	270.6	269.7	269.2
35°	300.2	293.6	288.2	276.8	272.8	264.8	261.7	260.0	256.4	255.5	254.6
37.5°	280.7	274.5	268.8	261.7	254.2	249.8	248.0	245.4	243.6	244.0	243.2
40°	261.3	256.4	252.0	244.5	240.1	237.8	234.3	231.7	230.8	231.2	230.8
42.5°	242.3	237.8	235.2	229.4	225.0	222.8	220.6	218.0	219.3	219.3	220.6
45°	225.0	221.0	219.3	214.9	212.2	208.7	206.5	206.0	207.8	207.3	207.3
47.5°	207.3	206.0	203.8	199.8	196.3	194.1	193.6	193.6	195.4	196.3	195.8
50°	193.6	191.0	188.3	185.2	182.6	181.7	180.4	181.3	183.0	183.0	183.9
52.5°	176.4	174.6	173.7	171.1	169.3	169.3	169.3	169.8	171.1	172.4	172.0
55°	161.4	160.0	159.2	157.8	155.6	156.1	155.6	156.5	157.8	159.2	160.0
57.5°	145.5	145.0	144.1	141.9	141.9	141.5	142.8	143.2	145.5	146.3	147.7
60°	131.3	130.0	130.0	128.2	128.2	128.2	129.5	130.9	132.6	133.1	134.0
62.5°	116.3	116.3	115.8	114.5	114.5	115.8	116.3	118.0	118.9	118.9	120.3
65°	102.1	101.7	101.2	101.7	102.1	102.1	103.5	104.3	105.2	105.7	106.1
67.5°	88.0	87.5	88.4	88.0	88.9	90.6	90.2	91.5	92.8	92.8	93.3
70°	74.7	75.6	75.2	76.0	75.6	76.5	77.8	78.3	78.3	78.7	80.0
72.5°	62.3	62.3	62.3	61.9	62.3	63.2	64.1	64.5	65.4	65.9	67.2
75°	50.4	50.4	49.5	50.4	50.4	51.3	52.2	52.2	52.2	53.1	54.4
77.5°	38.0	38.5	38.0	38.9	38.9	39.3	40.2	39.8	40.7	41.1	41.6
80°	27.9	27.4	27.4	27.4	27.9	27.9	28.7	29.2	29.2	30.5	29.6
82.5°	17.7	18.1	17.7	18.1	18.1	18.6	18.1	18.6	19.0	19.9	19.5
85°	10.2	9.7	9.7	10.2	9.7	9.7	10.2	9.7	10.2	9.7	10.2
87.5°	4.0	3.5	3.5	3.5	3.5	3.1	3.1	2.7	2.7	2.7	2.2
90°	11.9	13.4	14.8	19.8	26.7	32.6	33.6	32.6	31.6	29.6	31.6
92.5°	41.5	47.0	52.4	79.0	116.6	150.2	152.1	127.4	99.8	85.0	74.1
95°	73.1	84.9	96.8	142.3	228.2	342.8	387.3	338.9	258.8	198.6	157.1
97.5°	98.8	112.2	125.5	183.8	303.3	488.1	631.3	636.2	529.5	422.8	323.1
100°	123.5	137.4	151.2	203.5	324.1	537.5	780.5	922.8	902.0	779.5	644.2
102.5°	146.2	160.0	173.9	221.3	325.0	518.7	785.4	1029.5	1146.0	1142.1	1052.2
105°	168.0	181.8	195.6	242.1	330.0	493.0	732.1	994.9	1200.4	1312.0	1324.9
107.5°	189.7	203.6	217.4	262.8	340.8	479.2	682.7	921.8	1142.1	1308.1	1404.9
110°	211.4	225.8	240.1	283.5	354.7	475.2	649.1	853.6	1062.1	1238.9	1365.4

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	232.2	247.0	261.8	303.3	369.5	476.2	627.4	806.2	988.9	1156.9	1294.2
115°	254.9	268.2	281.6	324.1	384.3	480.1	612.5	768.6	931.6	1083.8	1213.2
117.5°	275.6	289.5	303.3	342.8	400.1	486.1	604.6	742.9	884.2	1020.6	1141.1
120°	296.4	310.2	324.1	362.6	415.9	492.0	597.7	723.2	850.6	973.1	1077.9
122.5°	317.1	331.5	345.8	381.4	429.8	498.9	593.8	706.4	824.0	933.6	1031.4
125°	336.9	350.8	364.6	400.1	444.6	505.8	588.8	690.6	798.3	900.0	987.0
127.5°	354.7	369.0	383.3	417.9	458.4	512.8	585.9	675.8	772.6	866.4	949.4
130°	371.5	385.3	399.1	433.7	471.3	520.7	583.9	660.9	747.9	832.9	910.9
132.5°	387.3	401.1	414.9	447.5	484.1	528.6	582.9	649.1	724.2	801.2	871.4
135°	401.1	415.0	428.8	460.4	495.0	534.5	581.9	638.2	702.4	767.6	832.9
137.5°	414.0	426.8	439.6	471.3	503.9	540.4	581.9	630.3	684.7	741.0	794.3
140°	424.8	437.6	450.5	480.1	510.8	544.4	580.9	623.4	667.9	715.3	760.7
142.5°	434.7	446.6	458.4	487.1	516.7	547.3	580.9	616.5	654.0	692.6	730.1
145°	445.6	456.4	467.3	494.0	521.6	549.3	578.9	610.6	641.2	673.8	704.4
147.5°	454.5	464.4	474.2	499.9	524.6	550.3	576.0	604.6	631.3	658.0	682.7
150°	463.4	472.2	481.1	503.9	526.6	549.3	573.0	596.7	620.4	642.2	662.9
152.5°	472.2	480.2	488.1	507.8	527.6	547.3	568.1	589.8	609.6	629.3	646.1
155°	480.1	487.6	495.0	511.8	528.6	545.4	562.2	580.9	599.7	615.5	630.3
157.5°	487.1	493.5	499.9	514.7	528.6	541.4	556.2	573.0	587.8	601.7	614.5
160°	494.0	499.4	504.8	516.7	528.6	538.4	550.3	564.1	577.0	587.8	598.7
162.5°	499.9	503.8	507.8	517.7	527.6	535.5	545.4	556.2	566.1	575.0	583.9
165°	503.9	506.8	509.8	518.7	525.6	531.5	538.4	547.3	555.2	562.2	569.1
167.5°	507.8	509.8	511.8	518.7	524.6	527.6	532.5	538.4	544.4	550.3	555.2
170°	509.8	511.3	512.8	517.7	522.6	524.6	527.6	531.5	536.5	539.4	543.4
172.5°	511.8	512.8	513.7	516.7	519.7	520.7	521.6	524.6	527.6	529.5	532.5
175°	512.8	513.2	513.7	515.7	517.7	516.7	517.7	518.7	521.6	522.6	523.6
177.5°	513.7	513.7	513.7	514.7	516.7	514.7	513.7	514.7	516.7	516.7	517.7
180°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	548.2	549.5	546.4	545.5	546.4	543.3	544.2	545.1	545.1	546.4	547.3
5°	516.4	514.6	511.5	510.6	509.7	511.1	510.2	511.5	511.9	515.0	515.5
7.5°	485.0	482.3	479.7	477.0	476.1	473.9	476.1	476.1	479.2	478.4	480.6
10°	447.8	447.4	443.9	442.5	440.8	437.2	442.1	440.8	443.0	447.0	447.8
12.5°	420.4	415.6	417.8	411.6	413.8	410.3	410.7	410.7	414.2	414.7	413.8
15°	394.4	390.4	384.6	382.0	380.6	378.9	384.6	385.1	382.4	388.6	386.4
17.5°	367.8	367.8	362.5	361.2	357.7	359.4	358.5	359.0	358.1	362.5	364.7
20°	344.8	342.6	340.9	341.3	336.9	336.0	335.1	336.0	339.1	342.2	343.1
22.5°	326.3	324.9	320.5	321.4	317.9	319.2	318.3	320.5	321.0	321.0	324.1
25°	308.6	306.8	307.3	305.5	304.2	304.2	302.8	304.2	305.9	306.8	307.3
27.5°	295.3	294.0	291.8	290.5	291.3	289.1	290.9	292.2	292.2	291.3	292.2
30°	279.4	280.3	280.3	275.9	277.6	276.8	278.1	279.0	279.0	279.4	278.5
32.5°	268.8	266.1	265.7	265.3	265.3	263.5	263.5	264.8	265.3	265.7	267.0
35°	254.6	254.6	252.4	253.8	252.0	252.4	252.0	252.4	253.3	252.0	253.3
37.5°	241.8	242.3	241.4	242.3	242.7	241.8	240.9	242.7	241.8	241.8	240.9
40°	230.8	230.3	230.8	230.8	230.8	231.2	230.3	230.3	230.3	229.4	228.6
42.5°	221.5	218.8	219.7	220.2	218.8	218.8	219.3	218.8	220.2	217.5	217.5
45°	208.2	207.3	207.8	207.8	208.7	207.3	208.2	208.7	207.3	206.9	206.0
47.5°	196.3	197.2	196.3	197.2	197.2	198.1	196.3	196.7	197.2	195.4	194.1
50°	184.4	184.4	185.7	185.2	185.7	184.8	184.8	184.4	184.8	183.9	182.6
52.5°	173.3	172.0	174.2	173.7	173.3	172.9	172.4	172.9	172.0	171.1	171.1
55°	159.6	159.6	160.9	161.4	161.4	160.5	159.6	160.0	159.6	159.2	158.7
57.5°	148.5	146.8	147.7	148.1	148.1	146.8	147.7	146.8	146.8	147.2	145.9
60°	134.4	134.4	133.5	134.8	134.8	134.0	134.0	134.4	133.5	133.1	132.6
62.5°	119.4	119.8	121.1	121.6	122.0	121.1	120.3	120.7	120.7	119.4	119.8
65°	106.5	107.4	109.2	108.8	107.9	108.3	107.4	107.9	106.5	107.0	105.7
67.5°	94.2	93.7	94.2	94.2	95.1	94.6	93.7	93.7	93.3	94.6	93.3
70°	80.9	80.9	80.9	80.9	81.3	81.8	80.9	80.0	80.5	79.6	79.1
72.5°	67.2	67.6	67.2	68.1	66.8	67.6	67.6	67.2	66.8	66.8	66.8
75°	54.4	55.3	53.9	54.4	53.9	54.8	54.4	54.4	53.5	53.1	53.5
77.5°	41.6	42.0	41.1	41.6	41.1	41.6	41.6	41.1	41.1	41.1	41.1
80°	29.6	30.1	29.6	29.2	28.7	29.6	28.7	29.2	29.6	29.2	30.1
82.5°	19.0	19.0	18.6	19.0	18.1	18.1	18.6	18.6	18.1	19.0	18.1
85°	9.3	9.3	10.2	9.3	8.8	8.8	8.8	9.3	8.8	9.7	9.3
87.5°	2.2	1.8	2.2	2.2	1.8	1.8	2.2	1.8	2.2	2.7	1.8
90°	32.1	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.1
92.5°	70.2	66.2	65.2	61.3	62.2	60.3	62.2	61.3	65.2	66.2	70.2
95°	146.2	135.4	122.5	114.6	111.6	112.6	111.6	114.6	122.5	135.4	146.2
97.5°	293.5	263.8	225.3	205.5	194.6	188.7	194.6	205.5	225.3	263.8	293.5
100°	584.4	524.6	442.6	400.1	371.5	353.7	371.5	400.1	442.6	524.6	584.4
102.5°	988.0	923.7	832.9	752.8	715.3	689.6	715.3	752.8	832.9	923.7	988.0
105°	1308.6	1292.3	1231.0	1169.7	1127.3	1113.4	1127.3	1169.7	1231.0	1292.3	1308.6
107.5°	1424.6	1444.4	1443.4	1434.5	1421.7	1399.0	1421.7	1434.5	1443.4	1444.4	1424.6
110°	1405.9	1446.4	1488.9	1507.6	1516.5	1515.5	1516.5	1507.6	1488.9	1446.4	1405.9

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	1342.2	1390.1	1453.3	1487.9	1506.6	1513.6	1506.6	1487.9	1453.3	1390.1	1342.2
115°	1264.1	1315.0	1385.1	1430.6	1456.3	1465.1	1456.3	1430.6	1385.1	1315.0	1264.1
117.5°	1189.5	1237.9	1310.0	1358.4	1385.1	1392.0	1385.1	1358.4	1310.0	1237.9	1189.5
120°	1122.8	1167.8	1236.9	1283.4	1312.0	1321.9	1312.0	1283.4	1236.9	1167.8	1122.8
122.5°	1071.0	1110.5	1170.7	1216.2	1240.9	1248.8	1240.9	1216.2	1170.7	1110.5	1071.0
125°	1024.0	1061.1	1118.4	1155.9	1180.6	1188.5	1180.6	1155.9	1118.4	1061.1	1024.0
127.5°	984.0	1018.6	1069.0	1104.5	1126.3	1132.2	1126.3	1104.5	1069.0	1018.6	984.0
130°	943.5	976.1	1024.5	1058.1	1077.9	1085.8	1077.9	1058.1	1024.5	976.1	943.5
132.5°	901.5	931.6	979.1	1012.7	1030.4	1037.4	1030.4	1012.7	979.1	931.6	901.5
135°	860.6	888.2	930.7	963.3	981.0	985.0	981.0	963.3	930.7	888.2	860.6
137.5°	819.0	843.7	884.2	912.9	928.7	934.6	928.7	912.9	884.2	843.7	819.0
140°	782.4	804.2	835.8	861.5	876.3	882.2	876.3	861.5	835.8	804.2	782.4
142.5°	747.4	764.7	794.3	817.0	829.9	829.9	829.9	817.0	794.3	764.7	747.4
145°	718.8	733.1	756.8	773.6	783.5	786.4	783.5	773.6	756.8	733.1	718.8
147.5°	693.6	704.4	725.2	739.0	745.9	747.9	745.9	739.0	725.2	704.4	693.6
150°	671.8	680.7	695.5	707.4	713.3	714.3	713.3	707.4	695.5	680.7	671.8
152.5°	653.5	660.9	671.8	681.7	685.6	685.6	685.6	681.7	671.8	660.9	653.5
155°	635.8	641.2	652.1	659.0	662.9	660.9	662.9	659.0	652.1	641.2	635.8
157.5°	619.0	623.4	631.3	637.2	639.2	639.2	639.2	637.2	631.3	623.4	619.0
160°	602.2	605.6	612.5	617.5	618.5	618.5	618.5	617.5	612.5	605.6	602.2
162.5°	586.3	588.8	595.7	598.7	599.7	598.7	599.7	598.7	595.7	588.8	586.3
165°	571.0	573.0	577.0	580.9	580.9	579.9	580.9	580.9	577.0	573.0	571.0
167.5°	557.2	559.2	561.2	563.1	563.1	562.2	563.1	563.1	561.2	559.2	557.2
170°	544.4	545.4	546.3	549.3	548.3	546.3	548.3	549.3	546.3	545.4	544.4
172.5°	533.0	533.5	534.5	535.5	534.5	533.5	534.5	535.5	534.5	533.5	533.0
175°	524.1	524.6	524.6	525.6	524.6	522.6	524.6	525.6	524.6	524.6	524.1
177.5°	517.7	517.7	517.7	517.7	516.7	514.7	516.7	517.7	517.7	517.7	517.7
180°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2	575.2
2.5°	546.0	549.5	548.2	543.3	549.1	549.1	553.1	553.1	557.9	559.7	562.3
5°	515.0	517.7	519.9	517.7	521.7	527.9	531.4	534.5	541.1	543.8	547.8
7.5°	481.9	486.8	489.0	489.0	495.6	502.7	509.7	514.2	523.4	527.0	531.0
10°	449.6	455.4	459.8	459.3	470.4	474.8	483.7	493.8	503.1	508.4	514.2
12.5°	415.6	418.7	424.9	433.7	436.4	444.3	454.5	467.3	484.1	489.0	497.4
15°	387.3	395.7	400.5	404.5	410.7	418.2	429.3	441.7	458.5	469.1	477.9
17.5°	363.4	374.5	377.6	376.7	384.6	396.1	408.9	418.2	433.3	446.1	454.5
20°	344.0	348.4	353.7	355.9	362.1	374.5	386.8	397.4	409.8	420.0	429.7
22.5°	324.5	328.0	332.5	336.4	341.3	348.4	360.3	373.6	385.5	395.2	406.3
25°	308.6	310.8	314.8	317.9	323.2	328.0	336.4	351.0	365.2	370.9	380.6
27.5°	293.1	294.9	297.5	301.1	303.7	308.6	316.1	328.0	342.6	348.4	361.6
30°	279.4	280.7	283.4	285.2	286.5	292.2	298.0	307.3	318.3	326.3	336.0
32.5°	266.6	267.9	270.6	271.0	272.8	275.9	281.2	289.6	299.3	305.9	314.3
35°	252.4	253.3	256.0	256.9	258.2	260.8	264.8	271.0	279.8	284.7	292.2
37.5°	241.4	240.9	242.7	244.0	245.8	247.1	248.5	254.6	261.3	265.7	271.4
40°	229.4	228.6	229.0	230.8	231.7	233.4	233.4	239.6	244.0	247.6	252.0
42.5°	217.5	217.1	216.2	217.1	218.0	218.4	218.8	223.3	227.7	230.8	235.6
45°	205.6	205.1	204.2	204.7	204.7	205.6	206.9	208.7	211.8	214.4	217.1
47.5°	194.5	193.6	192.3	191.9	192.8	192.8	192.8	194.5	197.6	198.5	201.2
50°	183.0	181.7	179.9	179.0	179.0	178.6	179.5	179.9	182.6	183.5	185.7
52.5°	170.6	169.8	168.0	166.2	166.7	165.8	166.2	166.7	167.6	168.9	170.2
55°	158.3	156.5	155.2	154.7	153.4	153.4	152.1	153.9	153.4	153.9	155.6
57.5°	146.3	144.6	142.4	141.5	140.1	139.7	138.8	138.4	138.8	140.1	141.5
60°	132.2	131.3	130.0	128.7	127.8	126.4	125.6	125.6	125.1	125.1	125.6
62.5°	118.5	118.0	116.3	115.8	114.9	114.1	112.7	111.9	111.9	112.7	113.2
65°	105.2	104.8	103.5	103.0	100.8	99.9	99.5	99.0	98.1	98.1	98.1
67.5°	92.8	91.5	91.5	89.3	87.5	86.7	85.8	85.3	85.3	85.3	85.8
70°	79.1	79.1	77.8	76.5	74.7	75.2	73.8	72.5	72.5	71.6	72.1
72.5°	65.9	65.4	64.1	63.7	62.3	61.0	60.1	61.0	59.7	59.2	59.7
75°	53.1	52.6	51.7	50.8	51.3	50.0	48.6	48.2	48.2	47.3	47.3
77.5°	40.7	41.6	39.8	39.3	38.5	37.6	37.1	36.7	36.7	36.7	37.6
80°	28.3	28.7	28.7	27.9	28.3	27.0	27.0	27.0	25.6	26.1	26.5
82.5°	18.1	18.1	17.7	18.1	17.7	17.7	17.2	17.2	16.8	16.8	17.2
85°	10.2	9.7	9.3	10.2	9.7	9.7	9.3	9.3	9.3	9.3	9.3
87.5°	2.2	2.7	2.7	2.7	2.7	3.1	3.1	3.1	3.5	3.5	3.5
90°	31.6	29.6	31.6	32.6	33.6	32.6	26.7	19.8	14.8	13.4	11.9
92.5°	74.1	85.0	99.8	127.4	152.1	150.2	116.6	79.0	52.4	47.0	41.5
95°	157.1	198.6	258.8	338.9	387.3	342.8	228.2	142.3	96.8	84.9	73.1
97.5°	323.1	422.8	529.5	636.2	631.3	488.1	303.3	183.8	125.5	112.2	98.8
100°	644.2	779.5	902.0	922.8	780.5	537.5	324.1	203.5	151.2	137.4	123.5
102.5°	1052.2	1142.1	1146.0	1029.5	785.4	518.7	325.0	221.3	173.9	160.0	146.2
105°	1324.9	1312.0	1200.4	994.9	732.1	493.0	330.0	242.1	195.6	181.8	168.0
107.5°	1404.9	1308.1	1142.1	921.8	682.7	479.2	340.8	262.8	217.4	203.6	189.7
110°	1365.4	1238.9	1062.1	853.6	649.1	475.2	354.7	283.5	240.1	225.8	211.4

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	1294.2	1156.9	988.9	806.2	627.4	476.2	369.5	303.3	261.8	247.0	232.2
115°	1213.2	1083.8	931.6	768.6	612.5	480.1	384.3	324.1	281.6	268.2	254.9
117.5°	1141.1	1020.6	884.2	742.9	604.6	486.1	400.1	342.8	303.3	289.5	275.6
120°	1077.9	973.1	850.6	723.2	597.7	492.0	415.9	362.6	324.1	310.2	296.4
122.5°	1031.4	933.6	824.0	706.4	593.8	498.9	429.8	381.4	345.8	331.5	317.1
125°	987.0	900.0	798.3	690.6	588.8	505.8	444.6	400.1	364.6	350.8	336.9
127.5°	949.4	866.4	772.6	675.8	585.9	512.8	458.4	417.9	383.3	369.0	354.7
130°	910.9	832.9	747.9	660.9	583.9	520.7	471.3	433.7	399.1	385.3	371.5
132.5°	871.4	801.2	724.2	649.1	582.9	528.6	484.1	447.5	414.9	401.1	387.3
135°	832.9	767.6	702.4	638.2	581.9	534.5	495.0	460.4	428.8	415.0	401.1
137.5°	794.3	741.0	684.7	630.3	581.9	540.4	503.9	471.3	439.6	426.8	414.0
140°	760.7	715.3	667.9	623.4	580.9	544.4	510.8	480.1	450.5	437.6	424.8
142.5°	730.1	692.6	654.0	616.5	580.9	547.3	516.7	487.1	458.4	446.6	434.7
145°	704.4	673.8	641.2	610.6	578.9	549.3	521.6	494.0	467.3	456.4	445.6
147.5°	682.7	658.0	631.3	604.6	576.0	550.3	524.6	499.9	474.2	464.4	454.5
150°	662.9	642.2	620.4	596.7	573.0	549.3	526.6	503.9	481.1	472.2	463.4
152.5°	646.1	629.3	609.6	589.8	568.1	547.3	527.6	507.8	488.1	480.2	472.2
155°	630.3	615.5	599.7	580.9	562.2	545.4	528.6	511.8	495.0	487.6	480.1
157.5°	614.5	601.7	587.8	573.0	556.2	541.4	528.6	514.7	499.9	493.5	487.1
160°	598.7	587.8	577.0	564.1	550.3	538.4	528.6	516.7	504.8	499.4	494.0
162.5°	583.9	575.0	566.1	556.2	545.4	535.5	527.6	517.7	507.8	503.8	499.9
165°	569.1	562.2	555.2	547.3	538.4	531.5	525.6	518.7	509.8	506.8	503.9
167.5°	555.2	550.3	544.4	538.4	532.5	527.6	524.6	518.7	511.8	509.8	507.8
170°	543.4	539.4	536.5	531.5	527.6	524.6	522.6	517.7	512.8	511.3	509.8
172.5°	532.5	529.5	527.6	524.6	521.6	520.7	519.7	516.7	513.7	512.8	511.8
175°	523.6	522.6	521.6	518.7	517.7	516.7	517.7	515.7	513.7	513.2	512.8
177.5°	517.7	516.7	516.7	514.7	513.7	514.7	516.7	514.7	513.7	513.7	513.7
180°	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7	513.7

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	575.2	575.2	575.2	575.2
2.5°	564.6	564.6	571.2	578.3
5°	552.2	555.3	565.9	575.6
7.5°	540.2	545.5	558.8	571.2
10°	525.7	532.7	549.1	563.7
12.5°	511.5	518.1	537.1	553.5
15°	491.6	500.0	520.3	540.7
17.5°	471.7	480.1	504.9	528.7
20°	448.3	459.3	487.2	519.0
22.5°	426.6	440.3	471.3	496.9
25°	402.8	424.0	452.7	485.9
27.5°	381.5	402.8	431.9	465.5
30°	357.7	379.3	409.4	440.3
32.5°	334.7	354.6	383.7	421.8
35°	310.8	329.8	358.1	396.6
37.5°	289.1	307.7	338.6	374.0
40°	267.9	287.4	313.9	349.3
42.5°	248.0	265.3	289.1	324.5
45°	229.9	242.3	264.4	297.5
47.5°	210.9	221.9	242.3	275.4
50°	193.2	202.5	220.2	251.1
52.5°	176.0	183.9	200.3	225.0
55°	160.5	168.0	179.9	204.2
57.5°	144.6	150.3	161.8	181.3
60°	129.1	134.4	143.7	159.6
62.5°	113.6	118.0	126.9	139.7
65°	99.9	103.5	110.1	121.1
67.5°	86.7	88.9	94.2	103.0
70°	73.8	75.6	80.0	87.1
72.5°	60.1	61.9	66.8	71.6
75°	48.6	49.1	52.6	56.6
77.5°	38.0	37.6	40.2	43.3
80°	26.1	27.4	29.6	30.9
82.5°	17.7	18.1	19.0	19.9
85°	9.7	10.2	10.2	11.5
87.5°	4.0	4.4	4.4	4.9
90°	9.9	7.9	4.0	1.0
92.5°	33.6	28.7	20.7	14.8
95°	57.3	48.4	38.5	34.6
97.5°	81.0	68.2	57.3	51.4
100°	103.7	87.9	79.0	76.1
102.5°	125.5	109.7	100.8	98.8
105°	146.2	131.4	124.5	120.5
107.5°	168.0	154.1	147.2	144.2
110°	190.7	177.8	171.9	168.0



TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	212.4	200.6	193.6	189.7
115°	235.1	223.3	217.4	212.4
117.5°	256.9	246.0	240.1	236.1
120°	276.6	267.7	261.8	257.9
122.5°	297.4	287.5	281.6	278.6
125°	317.1	305.3	299.4	296.4
127.5°	335.9	323.1	315.2	311.2
130°	351.7	337.9	328.0	324.1
132.5°	366.5	351.7	340.8	335.9
135°	378.4	363.6	351.7	347.8
137.5°	391.2	375.4	363.6	358.6
140°	403.1	387.3	375.4	371.5
142.5°	414.0	398.1	387.3	384.3
145°	425.8	411.0	401.1	397.2
147.5°	437.7	423.8	414.0	411.0
150°	448.5	435.7	427.8	424.8
152.5°	458.4	447.5	439.6	438.7
155°	469.3	458.4	452.5	451.5
157.5°	478.2	468.3	463.4	462.4
160°	486.1	478.2	474.2	473.2
162.5°	493.0	487.1	483.1	484.1
165°	498.9	493.0	491.0	492.0
167.5°	503.9	499.9	497.9	498.9
170°	507.8	504.8	503.9	505.8
172.5°	510.8	507.8	508.8	509.8
175°	512.8	510.8	511.8	512.8
177.5°	513.7	511.8	512.8	514.7
180°	513.7	513.7	513.7	513.7

TEST NUMBER: P998344

CATALOG NUMBER: SA2XXDIP-B290D925UB30-4F0-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	10.73	11.40	11.88	12.53	14.11	8.23	8.89	9.37	10.02	11.60
	3H	11.53	12.13	12.68	13.27	14.86	9.56	10.15	10.71	11.29	12.88
	4H	11.69	12.26	12.85	13.40	14.99	10.01	10.58	11.17	11.71	13.31
	6H	11.73	12.25	12.89	13.39	15.00	10.31	10.83	11.48	11.97	13.58
	8H	11.70	12.20	12.87	13.35	14.95	10.39	10.88	11.56	12.04	13.64
	12H	11.66	12.13	12.83	13.27	14.90	10.42	10.89	11.59	12.04	13.66
4H	2H	10.75	11.32	11.92	12.46	14.05	8.65	9.22	9.82	10.35	11.95
	3H	11.72	12.19	12.89	13.35	14.96	10.09	10.57	11.26	11.73	13.34
	4H	11.99	12.42	13.16	13.57	15.20	10.62	11.05	11.79	12.21	13.83
	6H	12.10	12.48	13.28	13.65	15.27	10.99	11.36	12.17	12.53	14.15
	8H	12.10	12.45	13.28	13.61	15.24	11.10	11.44	12.27	12.61	14.24
	12H	12.05	12.37	13.25	13.54	15.18	11.14	11.46	12.34	12.63	14.27
8H	4H	11.98	12.33	13.16	13.49	15.13	10.75	11.09	11.92	12.26	13.89
	6H	12.15	12.44	13.35	13.64	15.27	11.18	11.46	12.37	12.67	14.30
	8H	12.18	12.43	13.38	13.61	15.27	11.33	11.57	12.53	12.76	14.41
	12H	12.16	12.37	13.36	13.56	15.24	11.41	11.63	12.61	12.81	14.49
12H	4H	11.93	12.24	13.12	13.42	15.06	10.71	11.03	11.91	12.20	13.84
	6H	12.13	12.38	13.33	13.56	15.21	11.18	11.42	12.38	12.61	14.26
	8H	12.15	12.37	13.36	13.55	15.24	11.32	11.54	12.53	12.73	14.41