

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: P998548

Luminaire Tested: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998548
REPORT IS A COMBINATION OF REPORTS P984291 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

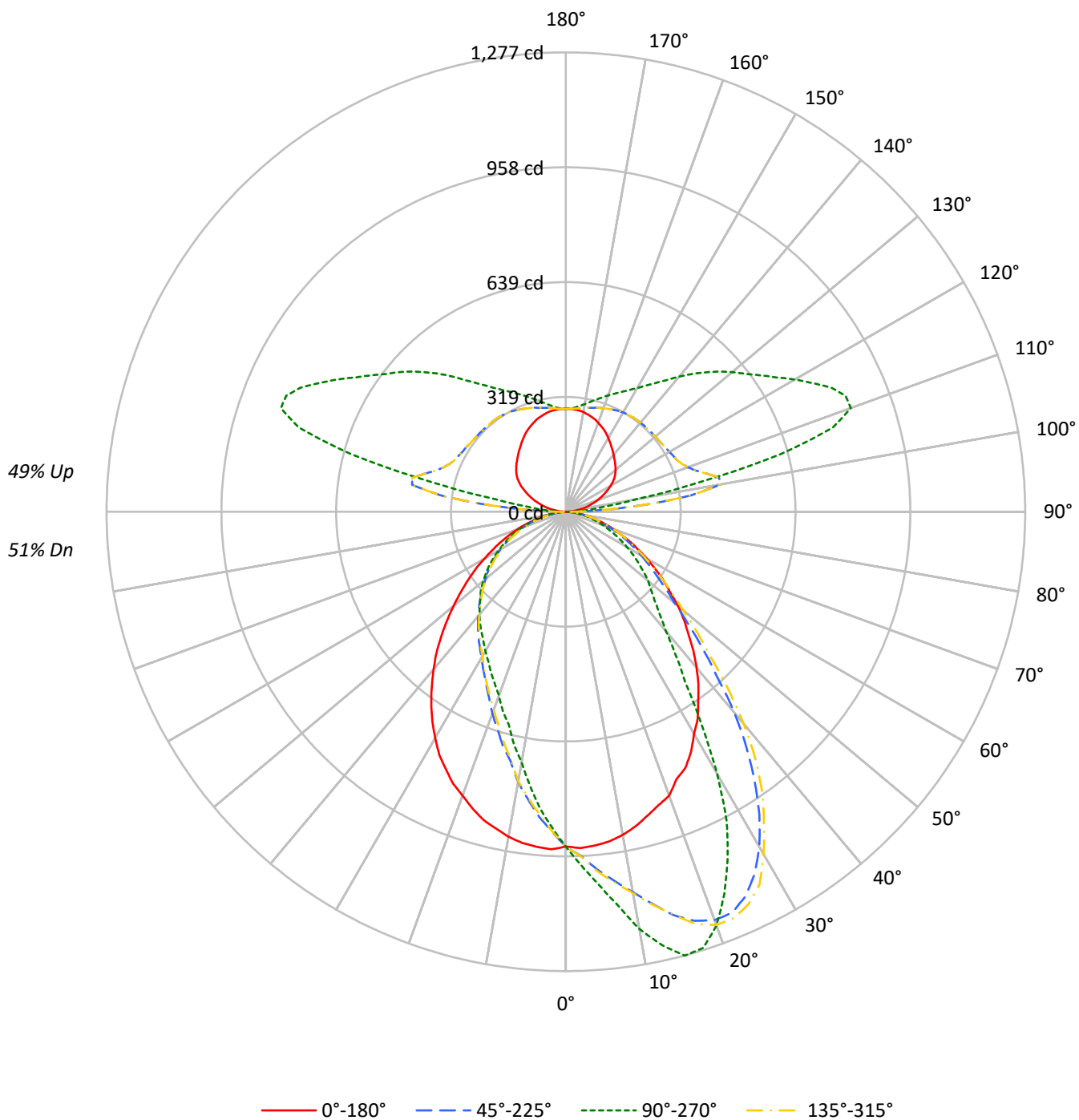
Lumens per Lamp: N/A
Luminaire Lumens: 4045.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	91	87	91	87	84	81	74	72	70	62	61	59	51	50	49
2	90	83	77	72	83	77	72	67	66	62	59	55	52	50	45	44	42
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36
4	76	65	58	52	70	61	54	49	52	47	43	44	40	37	37	34	32
5	70	58	50	45	64	54	47	42	47	41	37	40	36	33	33	30	28
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	22
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	23	20
9	52	40	32	27	48	37	31	26	33	27	23	28	24	21	24	21	18
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14729	14729	14729	14729
5°	14764	15704	14821	12495
10°	14593	17145	14684	10302
15°	14239	18083	14438	8678
20°	14017	16980	14017	7542
25°	13570	14587	13632	6745
30°	12836	11467	13081	6109
35°	12185	7929	12388	5590
40°	11435	5986	11567	5176
45°	10514	4919	10684	4727
50°	9716	4319	9733	4329
55°	8804	3679	8863	3893
60°	7835	3074	7944	3398
65°	6968	2499	7092	2902
70°	6102	1962	6258	2340
75°	5119	1424	5320	1698
80°	4000	902	4279	1007
85°	2627	454	2825	336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15226 cd/sqm

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	2.2
10°-20°	258.0	6.4
20°-30°	374.4	9.3
30°-40°	394.7	9.8
40°-50°	349.2	8.6
50°-60°	278.9	6.9
60°-70°	189.4	4.7
70°-80°	96.9	2.4
80°-90°	24.7	0.6
90°-100°	111.4	2.8
100°-110°	392.3	9.7
110°-120°	412.0	10.2
120°-130°	339.0	8.4
130°-140°	272.3	6.7
140°-150°	205.7	5.1
150°-160°	144.6	3.6
160°-170°	85.1	2.1
170°-180°	27.7	0.7
0°-30°	721.0	17.8
0°-40°	1115.7	27.6
0°-60°	1743.8	43.1
0°-90°	2054.8	50.8
90°-120°	915.8	22.6
90°-150°	1732.7	42.8
90°-180°	1990.0	49.2
0°-180°	4045.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	930	930	930	930	930	
5°	931	1039	935	827	931	88
15°	875	1277	887	613	875	247
25°	786	1064	790	492	786	359
35°	642	579	652	408	642	401
45°	481	349	489	335	481	373
55°	330	245	333	260	330	295
65°	196	151	200	175	196	195
75°	92	74	95	89	92	98
85°	19	19	20	14	19	22
90°	0	18	0	18	0	2
95°	19	63	19	63	19	20
105°	67	619	67	619	67	71
115°	118	815	118	815	118	117
125°	165	661	165	661	165	147
135°	193	548	193	548	193	149
145°	221	438	221	438	221	139
155°	251	368	251	368	251	116
165°	274	323	274	323	274	77
175°	285	291	285	291	285	27
180°	286	286	286	286	286	

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	935.5	937.7	941.2	942.0	949.1	954.8	961.3	961.3	963.4	962.7	957.0
5°	931.2	937.7	947.0	954.8	967.7	973.4	982.0	988.4	994.2	998.5	997.7
7.5°	924.1	935.5	949.1	964.1	981.3	991.3	1003.5	1014.9	1022.8	1029.9	1034.9
10°	911.9	931.2	949.8	969.9	992.0	1005.6	1019.9	1034.9	1047.1	1060.7	1073.6
12.5°	895.5	923.4	946.3	972.7	999.9	1014.9	1037.8	1049.2	1072.8	1107.2	1116.5
15°	874.7	912.6	934.1	967.7	1003.5	1015.6	1047.1	1065.7	1114.3	1135.8	1161.5
17.5°	855.4	897.6	926.2	964.8	999.9	1023.5	1054.3	1092.2	1132.9	1163.7	1192.3
20°	839.7	880.4	914.8	957.7	1002.0	1032.1	1064.3	1110.0	1154.4	1185.9	1208.0
22.5°	803.9	856.1	896.2	944.1	997.7	1039.2	1070.0	1120.1	1168.0	1187.3	1206.6
25°	786.0	831.1	877.6	931.9	994.9	1044.2	1070.7	1126.5	1168.7	1175.8	1180.1
27.5°	753.1	803.9	858.3	920.5	994.2	1035.7	1069.3	1120.1	1153.7	1148.7	1135.8
30°	712.4	774.6	834.7	901.9	984.2	1029.2	1060.7	1107.2	1124.3	1098.6	1075.7
32.5°	682.3	741.0	807.5	885.5	972.7	1015.6	1046.4	1082.9	1086.4	1039.9	1001.3
35°	641.6	706.6	781.7	864.0	953.4	992.0	1020.6	1042.8	1025.6	960.6	914.8
37.5°	605.1	669.5	749.6	833.2	926.9	964.8	987.7	991.3	949.1	891.9	824.7
40°	565.0	631.5	715.2	803.2	897.6	930.5	944.8	934.1	873.3	806.8	728.8
42.5°	525.0	590.8	680.9	771.0	860.4	888.3	894.0	864.7	790.3	712.4	622.3
45°	481.4	550.0	640.1	731.0	817.5	833.2	834.0	791.8	703.8	622.3	538.6
47.5°	445.6	509.2	598.6	689.5	762.4	773.2	768.9	720.2	624.4	532.8	459.9
50°	406.3	467.0	555.7	645.1	707.4	710.2	699.5	630.1	536.4	452.7	394.8
52.5°	364.1	425.6	507.1	592.9	648.7	644.4	623.7	549.3	461.3	391.9	347.6
55°	330.4	384.8	461.3	545.0	584.3	572.2	549.3	473.5	404.1	345.5	306.8
57.5°	293.2	341.2	416.3	489.2	512.1	500.7	477.8	407.0	342.6	298.3	272.5
60°	258.2	301.8	367.6	428.4	446.3	434.1	407.7	344.0	297.5	260.3	241.0
62.5°	226.0	263.9	319.0	374.8	381.9	369.8	346.9	295.4	255.3	226.0	211.7
65°	196.0	231.7	276.1	318.3	324.7	311.8	288.2	251.0	217.4	198.8	185.2
67.5°	166.6	195.3	234.6	265.4	268.9	256.8	237.5	207.4	186.7	166.6	156.6
70°	140.9	162.4	193.1	218.1	219.6	208.1	198.1	170.9	155.2	140.9	133.0
72.5°	115.9	130.9	154.5	173.1	173.8	166.6	157.4	140.2	126.6	116.6	108.7
75°	91.5	104.4	118.7	135.2	134.5	128.7	121.6	110.9	99.4	93.0	89.4
77.5°	70.1	78.0	89.4	100.1	100.1	97.3	93.0	85.1	78.0	71.5	67.9
80°	50.1	55.1	64.4	67.9	69.4	68.7	65.1	59.4	56.5	51.5	50.1
82.5°	32.2	35.8	40.1	43.6	45.8	44.3	43.6	40.8	36.5	35.0	33.6
85°	18.6	20.0	22.2	24.3	25.0	24.3	25.7	23.6	21.5	21.5	20.7
87.5°	7.9	8.6	10.0	10.0	10.7	10.7	10.0	10.7	10.7	10.0	9.3
90°	0.5	2.2	4.4	5.5	6.6	7.4	8.2	11.0	14.8	18.1	18.7
92.5°	8.2	11.5	15.9	18.7	23.1	26.1	29.1	44.0	64.8	83.5	84.6
95°	19.2	21.4	26.9	31.9	40.7	47.3	53.9	79.1	127.0	190.7	215.4
97.5°	28.6	31.9	37.9	45.1	55.0	62.4	69.8	102.2	168.7	271.5	351.2
100°	42.3	44.0	48.9	57.7	68.7	76.4	84.1	113.2	180.3	299.0	434.2
102.5°	55.0	56.1	61.0	69.8	81.3	89.0	96.7	123.1	180.8	288.5	436.9
105°	67.0	69.2	73.1	81.3	93.4	101.1	108.8	134.6	183.6	274.2	407.2
107.5°	80.2	81.9	85.7	93.4	105.5	113.2	120.9	146.2	189.6	266.5	379.8
110°	93.4	95.6	98.9	106.1	117.6	125.6	133.5	157.7	197.3	264.3	361.1

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	105.5	107.7	111.6	118.2	129.1	137.4	145.6	168.7	205.5	264.9	349.0
115°	118.2	120.9	124.2	130.8	141.8	149.2	156.6	180.3	213.8	267.1	340.7
117.5°	131.3	133.5	136.8	142.9	153.3	161.0	168.7	190.7	222.6	270.4	336.3
120°	143.4	145.6	148.9	153.9	164.9	172.6	180.3	201.7	231.4	273.7	332.5
122.5°	155.0	156.6	159.9	165.4	176.4	184.4	192.4	212.1	239.1	277.5	330.3
125°	164.9	166.5	169.8	176.4	187.4	195.1	202.8	222.6	247.3	281.4	327.5
127.5°	173.1	175.3	179.7	186.9	197.3	205.2	213.2	232.5	255.0	285.2	325.9
130°	180.3	182.5	188.0	195.6	206.6	214.3	222.0	241.3	262.1	289.6	324.8
132.5°	186.9	189.6	195.6	203.9	215.4	223.1	230.8	249.0	269.3	294.0	324.2
135°	193.4	195.6	202.2	210.5	223.1	230.8	238.5	256.1	275.3	297.3	323.7
137.5°	199.5	202.2	208.8	217.6	230.3	237.4	244.6	262.1	280.3	300.6	323.7
140°	206.6	208.8	215.4	224.2	236.3	243.4	250.6	267.1	284.1	302.8	323.1
142.5°	213.8	215.4	221.5	230.3	241.8	248.4	255.0	270.9	287.4	304.5	323.1
145°	220.9	223.1	228.6	236.9	247.9	253.9	259.9	274.8	290.2	305.6	322.0
147.5°	228.6	230.3	235.8	243.5	252.8	258.3	263.8	278.1	291.8	306.1	320.4
150°	236.3	238.0	242.4	249.5	257.7	262.6	267.6	280.3	292.9	305.6	318.8
152.5°	244.0	244.6	249.0	255.0	262.7	267.1	271.5	282.5	293.5	304.5	316.0
155°	251.2	251.7	255.0	261.0	267.1	271.2	275.3	284.7	294.0	303.4	312.7
157.5°	257.2	257.7	260.5	266.0	270.9	274.5	278.1	286.3	294.0	301.2	309.4
160°	263.2	263.8	266.0	270.4	274.8	277.8	280.8	287.4	294.0	299.5	306.1
162.5°	269.3	268.7	270.9	274.2	278.1	280.3	282.5	288.0	293.5	297.9	303.4
165°	273.7	273.1	274.2	277.5	280.3	282.0	283.6	288.5	292.4	295.7	299.5
167.5°	277.5	277.0	278.1	280.3	282.5	283.6	284.7	288.5	291.8	293.5	296.2
170°	281.4	280.3	280.8	282.5	283.6	284.4	285.2	288.0	290.7	291.8	293.5
172.5°	283.6	283.0	282.5	284.1	284.7	285.2	285.8	287.4	289.1	289.6	290.2
175°	285.2	284.7	284.1	285.2	285.2	285.5	285.8	286.9	288.0	287.4	288.0
177.5°	286.3	285.2	284.7	285.8	285.8	285.8	285.8	286.3	287.4	286.3	285.8
180°	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	967.0	967.7	969.1	976.3	979.9	980.6	977.7	984.2	986.3	984.2	982.7
5°	1012.8	1017.1	1025.6	1034.9	1034.2	1034.9	1039.2	1043.5	1045.0	1039.2	1041.4
7.5°	1052.8	1061.4	1070.7	1085.0	1085.0	1092.2	1095.0	1098.6	1107.2	1102.9	1101.5
10°	1098.6	1110.0	1127.2	1150.1	1150.8	1158.0	1165.1	1176.6	1180.1	1177.3	1178.7
12.5°	1155.8	1178.0	1179.4	1204.4	1215.9	1217.3	1228.8	1226.6	1233.8	1233.8	1245.9
15°	1180.8	1215.2	1234.5	1258.8	1266.0	1257.4	1266.7	1276.7	1277.4	1277.4	1276.7
17.5°	1225.9	1239.5	1258.8	1271.7	1274.5	1274.5	1275.3	1279.5	1276.7	1271.0	1275.3
20°	1235.2	1240.9	1248.1	1246.6	1248.1	1240.9	1233.8	1226.6	1227.3	1223.8	1234.5
22.5°	1218.0	1216.6	1200.2	1189.4	1189.4	1175.1	1161.5	1155.1	1148.7	1150.8	1154.4
25°	1175.1	1153.0	1132.9	1117.2	1113.6	1090.7	1072.1	1066.4	1055.7	1064.3	1065.7
27.5°	1106.5	1081.4	1049.2	1035.7	1017.1	1007.8	994.9	977.7	955.5	968.4	966.3
30°	1032.8	995.6	969.1	936.2	906.9	904.8	880.4	851.8	840.4	840.4	846.8
32.5°	950.5	901.2	862.6	816.1	787.5	775.3	746.0	717.4	723.8	702.4	710.2
35°	854.7	789.6	741.0	695.9	674.5	660.2	622.3	606.5	589.4	579.3	597.9
37.5°	763.2	688.1	625.8	576.5	568.6	542.9	517.1	507.1	497.1	501.4	500.7
40°	651.6	585.1	529.3	490.6	477.1	464.9	447.7	435.6	429.1	432.7	433.4
42.5°	550.7	494.9	453.5	426.3	414.8	406.3	397.7	387.7	385.5	385.5	388.4
45°	472.8	427.0	399.1	376.9	370.5	364.1	357.6	353.3	351.9	349.0	351.2
47.5°	410.5	374.1	356.9	340.4	333.3	331.9	326.1	324.0	321.1	320.4	321.1
50°	358.3	335.4	319.7	310.4	305.4	303.3	300.4	296.1	294.7	298.3	296.8
52.5°	321.9	300.4	291.8	282.5	279.7	276.8	272.5	273.2	272.5	271.1	271.1
55°	285.4	271.8	263.2	256.1	255.3	252.5	248.9	247.5	246.8	245.3	247.5
57.5°	256.1	245.3	237.5	231.0	228.2	228.2	224.6	221.7	221.7	221.0	221.7
60°	226.7	216.0	211.0	204.6	202.4	201.7	199.5	198.1	196.0	196.0	196.0
62.5°	199.5	191.0	185.2	179.5	180.2	176.7	173.8	172.4	172.4	173.1	173.1
65°	173.8	168.1	160.9	155.9	154.5	153.8	152.3	151.6	149.5	150.9	150.9
67.5°	150.2	142.3	138.0	135.9	133.7	133.0	131.6	130.2	129.5	128.7	130.2
70°	126.6	120.2	116.6	115.2	113.0	112.3	111.6	109.4	110.1	110.9	111.6
72.5°	105.1	99.4	98.7	94.4	94.4	94.4	91.5	93.0	92.3	90.8	92.3
75°	83.0	80.1	78.7	76.5	77.2	76.5	75.8	73.7	73.7	74.4	75.1
77.5°	65.8	62.9	62.2	60.1	58.6	60.1	58.6	57.9	57.9	58.6	58.6
80°	48.6	47.2	45.1	45.1	45.1	44.3	44.3	44.3	43.6	42.9	43.6
82.5°	32.2	32.2	31.5	30.8	31.5	30.0	30.8	30.8	30.8	30.8	30.8
85°	20.7	20.0	20.0	19.3	19.3	19.3	20.0	18.6	18.6	19.3	19.3
87.5°	9.3	9.3	9.3	10.0	9.3	9.3	9.3	10.0	9.3	9.3	9.3
90°	18.1	17.6	16.5	17.6	17.8	18.1	18.1	18.1	18.1	18.1	18.1
92.5°	70.9	55.5	47.3	41.2	39.0	36.8	36.3	34.1	34.6	33.5	34.6
95°	188.5	144.0	110.5	87.4	81.4	75.3	68.1	63.8	62.1	62.7	62.1
97.5°	353.9	294.6	235.2	179.7	163.2	146.7	125.3	114.3	108.3	105.0	108.3
100°	513.3	501.8	433.6	358.3	325.0	291.8	246.2	222.6	206.6	196.7	206.6
102.5°	572.7	637.5	635.3	585.3	549.6	513.9	463.3	418.8	397.9	383.6	397.9
105°	553.4	667.7	729.8	737.0	727.9	718.8	684.8	650.7	627.1	619.4	627.1
107.5°	512.8	635.3	727.6	781.5	792.5	803.5	802.9	798.0	790.8	778.2	790.8
110°	474.8	590.8	689.2	759.5	782.0	804.6	828.2	838.6	843.6	843.0	843.6

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	448.5	550.1	643.5	719.9	746.6	773.2	808.4	827.7	838.1	841.9	838.1
115°	427.6	518.2	602.9	674.9	703.2	731.5	770.5	795.8	810.1	815.0	810.1
117.5°	413.3	491.9	567.7	634.8	661.7	688.6	728.7	755.7	770.5	774.3	770.5
120°	402.3	473.2	541.3	599.6	624.6	649.6	688.1	713.9	729.8	735.3	729.8
122.5°	392.9	458.3	519.3	573.8	595.8	617.7	651.2	676.5	690.3	694.7	690.3
125°	384.2	444.1	500.7	549.0	569.6	590.2	622.1	643.0	656.7	661.1	656.7
127.5°	375.9	429.8	482.0	528.1	547.4	566.6	594.6	614.4	626.5	629.8	626.5
130°	367.7	416.0	463.3	506.7	524.8	543.0	569.9	588.6	599.6	604.0	599.6
132.5°	361.1	402.8	445.7	484.7	501.4	518.2	544.6	563.3	573.2	577.1	573.2
135°	355.0	390.7	427.0	463.3	478.7	494.1	517.7	535.8	545.7	547.9	545.7
137.5°	350.6	380.9	412.2	441.9	455.6	469.3	491.9	507.8	516.6	519.9	516.6
140°	346.8	371.5	397.9	423.2	435.3	447.4	464.9	479.2	487.5	490.8	487.5
142.5°	342.9	363.8	385.3	406.1	415.8	425.4	441.9	454.5	461.6	461.6	461.6
145°	339.6	356.7	374.8	391.8	399.8	407.8	421.0	430.3	435.8	437.5	435.8
147.5°	336.3	351.2	366.0	379.8	385.8	391.8	403.4	411.1	414.9	416.0	414.9
150°	331.9	345.1	357.2	368.8	373.8	378.7	386.9	393.5	396.8	397.3	396.8
152.5°	328.1	339.1	350.1	359.4	363.5	367.7	373.7	379.2	381.4	381.4	381.4
155°	323.1	333.6	342.4	350.6	353.6	356.7	362.7	366.6	368.8	367.7	368.8
157.5°	318.8	327.0	334.7	341.8	344.3	346.8	351.2	354.5	355.6	355.6	355.6
160°	313.8	321.0	327.0	333.0	335.0	336.9	340.7	343.5	344.0	344.0	344.0
162.5°	309.4	314.9	319.9	324.8	326.2	327.5	331.4	333.0	333.6	333.0	333.6
165°	304.5	308.9	312.7	316.6	317.7	318.8	321.0	323.1	323.1	322.6	323.1
167.5°	299.5	302.8	306.1	308.9	310.0	311.1	312.2	313.3	313.3	312.7	313.3
170°	295.7	298.4	300.1	302.3	302.8	303.4	303.9	305.6	305.0	303.9	305.0
172.5°	291.8	293.5	294.6	296.2	296.5	296.8	297.3	297.9	297.3	296.8	297.3
175°	288.5	290.2	290.7	291.3	291.6	291.8	291.8	292.4	291.8	290.7	291.8
177.5°	286.3	287.4	287.4	288.0	288.0	288.0	288.0	288.0	287.4	286.3	287.4
180°	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	986.3	981.3	977.0	977.7	981.3	978.4	971.3	962.0	958.4	954.1	958.4
5°	1045.7	1041.4	1032.8	1033.5	1031.4	1028.5	1017.1	1002.8	1002.8	991.3	989.9
7.5°	1104.3	1097.9	1092.2	1090.7	1082.9	1077.1	1067.1	1047.1	1039.2	1025.6	1017.8
10°	1170.1	1165.1	1158.7	1150.8	1146.5	1136.5	1120.1	1090.7	1076.4	1057.8	1044.2
12.5°	1236.6	1235.9	1221.6	1205.9	1205.2	1189.4	1178.0	1138.6	1119.3	1094.3	1062.1
15°	1278.8	1275.3	1267.4	1259.5	1261.7	1244.5	1218.8	1172.3	1159.4	1129.3	1095.0
17.5°	1278.1	1278.1	1276.0	1274.5	1272.4	1267.4	1253.1	1222.3	1201.6	1163.7	1131.5
20°	1237.3	1246.6	1248.8	1248.1	1255.2	1258.8	1258.1	1238.8	1222.3	1188.7	1155.8
22.5°	1155.8	1177.3	1186.6	1192.3	1207.3	1215.2	1233.8	1226.6	1222.3	1197.3	1169.4
25°	1080.0	1087.2	1115.0	1116.5	1137.2	1156.5	1175.1	1187.3	1203.0	1193.7	1170.1
27.5°	982.0	998.5	1018.5	1033.5	1037.8	1077.1	1107.9	1130.8	1166.5	1169.4	1161.5
30°	871.2	879.0	911.9	931.9	954.8	983.4	1027.8	1067.1	1099.3	1128.6	1138.6
32.5°	736.0	768.2	787.5	811.8	831.8	882.6	937.0	987.7	1024.9	1074.3	1095.7
35°	612.2	637.3	670.2	680.2	716.7	759.6	830.4	895.5	952.0	1002.0	1045.7
37.5°	510.0	530.0	565.0	580.8	602.2	657.3	716.7	797.5	865.4	926.9	981.3
40°	439.9	454.9	481.4	486.4	504.2	554.3	602.2	678.0	768.2	851.1	910.5
42.5°	391.9	399.1	417.0	423.4	434.9	468.5	511.4	582.9	666.6	752.4	836.1
45°	357.6	362.6	373.4	379.1	393.4	408.4	443.4	500.7	566.5	653.0	743.1
47.5°	326.9	333.3	337.6	341.2	349.0	365.5	388.4	430.6	493.5	572.9	660.2
50°	301.1	303.3	311.1	311.8	316.8	327.6	349.0	374.8	424.8	489.2	573.6
52.5°	275.4	277.5	282.5	287.5	289.7	298.3	312.6	334.0	371.2	422.0	497.1
55°	249.6	252.5	257.5	261.1	263.2	270.4	278.9	299.7	329.0	364.8	426.3
57.5°	223.9	230.3	231.7	233.9	237.5	245.3	253.2	265.4	288.2	321.1	366.2
60°	199.5	201.7	206.7	208.8	212.4	216.7	226.7	236.0	252.5	278.2	319.0
62.5°	174.5	179.5	181.7	183.8	186.7	191.7	198.1	208.1	222.4	243.2	275.4
65°	153.1	153.8	158.1	160.9	163.8	167.4	173.8	183.1	191.7	211.0	234.6
67.5°	132.3	133.7	135.2	138.0	141.6	145.2	150.9	155.9	166.6	179.5	198.1
70°	112.3	112.3	115.9	118.0	117.3	121.6	125.9	131.6	139.5	151.6	166.6
72.5°	94.4	93.7	96.6	97.3	98.7	101.6	104.4	110.1	114.4	123.7	135.2
75°	75.1	76.5	78.0	78.0	80.1	82.3	85.1	88.0	93.0	98.7	107.3
77.5°	59.4	59.4	60.8	61.5	63.7	62.9	65.8	68.7	72.2	77.2	83.7
80°	43.6	45.1	45.1	45.1	45.8	46.5	49.4	51.5	53.6	57.2	60.1
82.5°	30.8	30.8	32.2	32.2	32.2	33.6	33.6	34.3	35.8	37.9	40.1
85°	19.3	19.3	19.3	20.0	19.3	20.0	21.5	20.7	21.5	22.9	22.9
87.5°	9.3	9.3	9.3	9.3	9.3	10.0	9.3	10.0	10.7	10.7	10.7
90°	18.1	18.1	18.1	17.8	17.6	16.5	17.6	18.1	18.7	18.1	14.8
92.5°	34.1	36.3	36.8	39.0	41.2	47.3	55.5	70.9	84.6	83.5	64.8
95°	63.8	68.1	75.3	81.4	87.4	110.5	144.0	188.5	215.4	190.7	127.0
97.5°	114.3	125.3	146.7	163.2	179.7	235.2	294.6	353.9	351.2	271.5	168.7
100°	222.6	246.2	291.8	325.0	358.3	433.6	501.8	513.3	434.2	299.0	180.3
102.5°	418.8	463.3	513.9	549.6	585.3	635.3	637.5	572.7	436.9	288.5	180.8
105°	650.7	684.8	718.8	727.9	737.0	729.8	667.7	553.4	407.2	274.2	183.6
107.5°	798.0	802.9	803.5	792.5	781.5	727.6	635.3	512.8	379.8	266.5	189.6
110°	838.6	828.2	804.6	782.0	759.5	689.2	590.8	474.8	361.1	264.3	197.3

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	827.7	808.4	773.2	746.6	719.9	643.5	550.1	448.5	349.0	264.9	205.5
115°	795.8	770.5	731.5	703.2	674.9	602.9	518.2	427.6	340.7	267.1	213.8
117.5°	755.7	728.7	688.6	661.7	634.8	567.7	491.9	413.3	336.3	270.4	222.6
120°	713.9	688.1	649.6	624.6	599.6	541.3	473.2	402.3	332.5	273.7	231.4
122.5°	676.5	651.2	617.7	595.8	573.8	519.3	458.3	392.9	330.3	277.5	239.1
125°	643.0	622.1	590.2	569.6	549.0	500.7	444.1	384.2	327.5	281.4	247.3
127.5°	614.4	594.6	566.6	547.4	528.1	482.0	429.8	375.9	325.9	285.2	255.0
130°	588.6	569.9	543.0	524.8	506.7	463.3	416.0	367.7	324.8	289.6	262.1
132.5°	563.3	544.6	518.2	501.4	484.7	445.7	402.8	361.1	324.2	294.0	269.3
135°	535.8	517.7	494.1	478.7	463.3	427.0	390.7	355.0	323.7	297.3	275.3
137.5°	507.8	491.9	469.3	455.6	441.9	412.2	380.9	350.6	323.7	300.6	280.3
140°	479.2	464.9	447.4	435.3	423.2	397.9	371.5	346.8	323.1	302.8	284.1
142.5°	454.5	441.9	425.4	415.8	406.1	385.3	363.8	342.9	323.1	304.5	287.4
145°	430.3	421.0	407.8	399.8	391.8	374.8	356.7	339.6	322.0	305.6	290.2
147.5°	411.1	403.4	391.8	385.8	379.8	366.0	351.2	336.3	320.4	306.1	291.8
150°	393.5	386.9	378.7	373.8	368.8	357.2	345.1	331.9	318.8	305.6	292.9
152.5°	379.2	373.7	367.7	363.5	359.4	350.1	339.1	328.1	316.0	304.5	293.5
155°	366.6	362.7	356.7	353.6	350.6	342.4	333.6	323.1	312.7	303.4	294.0
157.5°	354.5	351.2	346.8	344.3	341.8	334.7	327.0	318.8	309.4	301.2	294.0
160°	343.5	340.7	336.9	335.0	333.0	327.0	321.0	313.8	306.1	299.5	294.0
162.5°	333.0	331.4	327.5	326.2	324.8	319.9	314.9	309.4	303.4	297.9	293.5
165°	323.1	321.0	318.8	317.7	316.6	312.7	308.9	304.5	299.5	295.7	292.4
167.5°	313.3	312.2	311.1	310.0	308.9	306.1	302.8	299.5	296.2	293.5	291.8
170°	305.6	303.9	303.4	302.8	302.3	300.1	298.4	295.7	293.5	291.8	290.7
172.5°	297.9	297.3	296.8	296.5	296.2	294.6	293.5	291.8	290.2	289.6	289.1
175°	292.4	291.8	291.8	291.6	291.3	290.7	290.2	288.5	288.0	287.4	288.0
177.5°	288.0	288.0	288.0	288.0	288.0	287.4	287.4	286.3	285.8	286.3	287.4
180°	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	954.8	951.3	949.1	950.5	946.3	935.5	935.5	939.1	934.8	930.5	924.1
5°	981.3	974.1	969.9	969.1	959.1	942.0	938.4	934.8	925.5	915.5	904.8
7.5°	1007.0	994.2	987.0	982.0	967.7	945.5	936.2	928.4	913.3	898.3	884.7
10°	1028.5	1009.9	1001.3	993.5	974.9	947.0	931.9	917.6	898.3	879.0	861.9
12.5°	1045.7	1024.2	1013.5	1002.0	979.2	942.7	924.1	901.2	881.9	856.1	839.0
15°	1074.3	1029.9	1019.9	1009.2	985.6	935.5	912.6	886.9	860.4	826.1	807.5
17.5°	1097.2	1037.8	1037.1	1014.2	983.4	932.7	897.6	864.0	835.4	801.1	771.7
20°	1110.8	1050.0	1038.5	1014.9	976.3	913.3	876.9	839.7	808.9	767.4	738.1
22.5°	1122.2	1067.1	1037.1	1008.5	961.3	906.9	853.3	818.2	776.0	731.0	703.1
25°	1126.5	1070.7	1039.2	1006.3	950.5	888.3	827.5	789.6	742.4	701.6	663.7
27.5°	1127.2	1070.0	1031.4	997.0	935.5	864.0	801.8	761.7	709.5	662.3	624.4
30°	1120.1	1062.1	1027.1	989.9	921.2	841.8	770.3	726.0	670.2	623.0	583.6
32.5°	1098.6	1046.4	1017.8	977.0	902.6	811.1	740.3	690.9	632.3	585.8	547.9
35°	1062.8	1027.1	995.6	957.7	878.3	782.5	710.2	652.3	592.9	548.6	512.8
37.5°	1018.5	999.2	969.9	932.7	850.4	756.7	676.6	612.2	552.9	510.0	474.9
40°	958.4	963.4	934.8	901.2	817.5	721.7	633.0	571.5	515.7	475.6	441.3
42.5°	893.3	914.1	897.6	865.4	781.0	683.0	600.8	532.8	478.5	437.0	408.4
45°	823.2	859.0	849.0	825.4	743.1	642.3	555.0	489.2	441.3	401.2	376.2
47.5°	746.7	797.5	797.5	780.3	700.9	601.5	515.7	448.4	401.2	372.6	348.3
50°	668.7	726.0	735.3	723.8	653.7	555.0	467.8	407.0	366.2	338.3	320.4
52.5°	587.2	653.7	670.9	665.2	603.7	510.7	428.4	369.1	331.9	307.5	291.8
55°	509.2	586.5	605.1	607.2	550.0	462.0	384.8	332.6	296.8	280.4	266.8
57.5°	435.6	510.0	530.7	534.3	495.7	417.7	344.0	298.3	266.1	252.5	241.7
60°	372.6	434.9	462.0	469.9	436.3	366.2	306.1	261.8	237.5	224.6	214.6
62.5°	321.1	371.2	399.8	402.0	386.9	321.1	266.8	229.6	208.8	197.4	192.4
65°	271.1	316.1	333.3	341.9	329.7	278.2	230.3	199.5	183.1	173.1	168.1
67.5°	231.0	259.6	273.9	285.4	273.2	234.6	196.0	170.9	158.8	148.8	145.9
70°	189.5	213.1	223.9	235.3	224.6	195.3	167.4	144.5	133.7	125.9	122.3
72.5°	151.6	170.2	180.2	187.4	181.0	156.6	133.7	118.0	110.1	104.4	102.3
75°	120.2	133.0	138.8	143.8	140.9	122.3	108.0	95.1	88.0	83.0	81.5
77.5°	91.5	100.8	107.3	108.7	105.1	93.0	80.8	73.0	67.2	64.4	62.9
80°	65.1	70.8	74.4	76.5	73.0	67.9	59.4	53.6	48.6	45.1	44.3
82.5°	43.6	46.5	49.4	48.6	47.2	42.9	37.9	35.0	32.9	30.0	30.0
85°	25.0	25.7	27.2	27.9	27.2	24.3	21.5	20.0	18.6	16.5	16.5
87.5°	10.7	11.4	11.4	12.2	10.7	10.7	9.3	7.9	7.9	7.2	6.4
90°	11.0	8.2	7.4	6.6	5.5	4.4	2.2	0.5	2.2	4.4	5.5
92.5°	44.0	29.1	26.1	23.1	18.7	15.9	11.5	8.2	11.5	15.9	18.7
95°	79.1	53.9	47.3	40.7	31.9	26.9	21.4	19.2	21.4	26.9	31.9
97.5°	102.2	69.8	62.4	55.0	45.1	37.9	31.9	28.6	31.9	37.9	45.1
100°	113.2	84.1	76.4	68.7	57.7	48.9	44.0	42.3	44.0	48.9	57.7
102.5°	123.1	96.7	89.0	81.3	69.8	61.0	56.1	55.0	56.1	61.0	69.8
105°	134.6	108.8	101.1	93.4	81.3	73.1	69.2	67.0	69.2	73.1	81.3
107.5°	146.2	120.9	113.2	105.5	93.4	85.7	81.9	80.2	81.9	85.7	93.4
110°	157.7	133.5	125.6	117.6	106.1	98.9	95.6	93.4	95.6	98.9	106.1

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	168.7	145.6	137.4	129.1	118.2	111.6	107.7	105.5	107.7	111.6	118.2
115°	180.3	156.6	149.2	141.8	130.8	124.2	120.9	118.2	120.9	124.2	130.8
117.5°	190.7	168.7	161.0	153.3	142.9	136.8	133.5	131.3	133.5	136.8	142.9
120°	201.7	180.3	172.6	164.9	153.9	148.9	145.6	143.4	145.6	148.9	153.9
122.5°	212.1	192.4	184.4	176.4	165.4	159.9	156.6	155.0	156.6	159.9	165.4
125°	222.6	202.8	195.1	187.4	176.4	169.8	166.5	164.9	166.5	169.8	176.4
127.5°	232.5	213.2	205.2	197.3	186.9	179.7	175.3	173.1	175.3	179.7	186.9
130°	241.3	222.0	214.3	206.6	195.6	188.0	182.5	180.3	182.5	188.0	195.6
132.5°	249.0	230.8	223.1	215.4	203.9	195.6	189.6	186.9	189.6	195.6	203.9
135°	256.1	238.5	230.8	223.1	210.5	202.2	195.6	193.4	195.6	202.2	210.5
137.5°	262.1	244.6	237.4	230.3	217.6	208.8	202.2	199.5	202.2	208.8	217.6
140°	267.1	250.6	243.4	236.3	224.2	215.4	208.8	206.6	208.8	215.4	224.2
142.5°	270.9	255.0	248.4	241.8	230.3	221.5	215.4	213.8	215.4	221.5	230.3
145°	274.8	259.9	253.9	247.9	236.9	228.6	223.1	220.9	223.1	228.6	236.9
147.5°	278.1	263.8	258.3	252.8	243.5	235.8	230.3	228.6	230.3	235.8	243.5
150°	280.3	267.6	262.6	257.7	249.5	242.4	238.0	236.3	238.0	242.4	249.5
152.5°	282.5	271.5	267.1	262.7	255.0	249.0	244.6	244.0	244.6	249.0	255.0
155°	284.7	275.3	271.2	267.1	261.0	255.0	251.7	251.2	251.7	255.0	261.0
157.5°	286.3	278.1	274.5	270.9	266.0	260.5	257.7	257.2	257.7	260.5	266.0
160°	287.4	280.8	277.8	274.8	270.4	266.0	263.8	263.2	263.8	266.0	270.4
162.5°	288.0	282.5	280.3	278.1	274.2	270.9	268.7	269.3	268.7	270.9	274.2
165°	288.5	283.6	282.0	280.3	277.5	274.2	273.1	273.7	273.1	274.2	277.5
167.5°	288.5	284.7	283.6	282.5	280.3	278.1	277.0	277.5	277.0	278.1	280.3
170°	288.0	285.2	284.4	283.6	282.5	280.8	280.3	281.4	280.3	280.8	282.5
172.5°	287.4	285.8	285.2	284.7	284.1	282.5	283.0	283.6	283.0	282.5	284.1
175°	286.9	285.8	285.5	285.2	285.2	284.1	284.7	285.2	284.7	284.1	285.2
177.5°	286.3	285.8	285.8	285.8	285.8	284.7	285.2	286.3	285.2	284.7	285.8
180°	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	920.5	924.1	923.4	916.2	908.3	901.9	889.7	891.2	886.9	887.6	891.9
5°	897.6	897.6	894.8	884.7	871.9	864.7	851.1	847.5	839.0	838.3	837.5
7.5°	873.3	869.7	866.1	851.8	836.1	824.7	806.1	801.8	793.2	787.5	784.6
10°	844.7	839.7	832.5	816.1	796.8	782.5	763.2	757.4	741.0	733.8	729.5
12.5°	813.2	810.4	798.9	785.3	753.9	738.1	710.2	715.9	699.5	685.2	683.0
15°	781.7	771.0	764.6	742.4	704.5	697.3	675.2	663.7	648.7	637.3	637.3
17.5°	751.0	734.5	720.2	696.6	668.7	648.7	632.3	626.5	607.9	596.5	594.4
20°	710.2	691.6	688.1	654.4	635.1	613.0	597.2	582.9	569.3	564.3	560.7
22.5°	671.6	650.1	644.4	615.8	596.5	574.3	558.6	548.6	538.6	535.0	528.6
25°	630.1	617.2	608.7	577.9	556.4	535.7	525.0	517.8	508.5	507.8	503.5
27.5°	590.1	577.9	569.3	540.0	524.3	505.0	496.4	488.5	483.5	481.4	479.2
30°	555.7	542.1	532.1	510.7	491.4	475.6	468.5	463.5	460.6	457.0	456.3
32.5°	517.8	510.0	496.4	479.9	464.9	449.9	445.6	442.0	437.7	436.3	435.6
35°	485.6	474.9	466.3	447.7	441.3	428.4	423.4	420.6	414.8	413.4	412.0
37.5°	454.2	444.2	434.9	423.4	411.3	404.1	401.2	397.0	394.1	394.8	393.4
40°	422.7	414.8	407.7	395.5	388.4	384.8	379.1	374.8	373.4	374.1	373.4
42.5°	391.9	384.8	380.5	371.2	364.1	360.5	356.9	352.6	354.8	354.8	356.9
45°	364.1	357.6	354.8	347.6	343.3	337.6	334.0	333.3	336.2	335.4	335.4
47.5°	335.4	333.3	329.7	323.3	317.6	314.0	313.3	313.3	316.1	317.6	316.8
50°	313.3	309.0	304.7	299.7	295.4	294.0	291.8	293.2	296.1	296.1	297.5
52.5°	285.4	282.5	281.1	276.8	273.9	273.9	273.9	274.6	276.8	278.9	278.2
55°	261.1	258.9	257.5	255.3	251.8	252.5	251.8	253.2	255.3	257.5	258.9
57.5°	235.3	234.6	233.2	229.6	229.6	228.9	231.0	231.7	235.3	236.7	238.9
60°	212.4	210.3	210.3	207.4	207.4	207.4	209.6	211.7	214.6	215.3	216.7
62.5°	188.1	188.1	187.4	185.2	185.2	187.4	188.1	191.0	192.4	192.4	194.5
65°	165.2	164.5	163.8	164.5	165.2	165.2	167.4	168.8	170.2	170.9	171.7
67.5°	142.3	141.6	143.0	142.3	143.8	146.6	145.9	148.1	150.2	150.2	150.9
70°	120.9	122.3	121.6	123.0	122.3	123.7	125.9	126.6	126.6	127.3	129.5
72.5°	100.8	100.8	100.8	100.1	100.8	102.3	103.7	104.4	105.9	106.6	108.7
75°	81.5	81.5	80.1	81.5	81.5	83.0	84.4	84.4	84.4	85.8	88.0
77.5°	61.5	62.2	61.5	62.9	62.9	63.7	65.1	64.4	65.8	66.5	67.2
80°	45.1	44.3	44.3	44.3	45.1	45.1	46.5	47.2	47.2	49.4	47.9
82.5°	28.6	29.3	28.6	29.3	29.3	30.0	29.3	30.0	30.8	32.2	31.5
85°	16.5	15.7	15.7	16.5	15.7	15.7	16.5	15.7	16.5	15.7	16.5
87.5°	6.4	5.7	5.7	5.7	5.7	5.0	5.0	4.3	4.3	4.3	3.6
90°	6.6	7.4	8.2	11.0	14.8	18.1	18.7	18.1	17.6	16.5	17.6
92.5°	23.1	26.1	29.1	44.0	64.8	83.5	84.6	70.9	55.5	47.3	41.2
95°	40.7	47.3	53.9	79.1	127.0	190.7	215.4	188.5	144.0	110.5	87.4
97.5°	55.0	62.4	69.8	102.2	168.7	271.5	351.2	353.9	294.6	235.2	179.7
100°	68.7	76.4	84.1	113.2	180.3	299.0	434.2	513.3	501.8	433.6	358.3
102.5°	81.3	89.0	96.7	123.1	180.8	288.5	436.9	572.7	637.5	635.3	585.3
105°	93.4	101.1	108.8	134.6	183.6	274.2	407.2	553.4	667.7	729.8	737.0
107.5°	105.5	113.2	120.9	146.2	189.6	266.5	379.8	512.8	635.3	727.6	781.5
110°	117.6	125.6	133.5	157.7	197.3	264.3	361.1	474.8	590.8	689.2	759.5

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	129.1	137.4	145.6	168.7	205.5	264.9	349.0	448.5	550.1	643.5	719.9
115°	141.8	149.2	156.6	180.3	213.8	267.1	340.7	427.6	518.2	602.9	674.9
117.5°	153.3	161.0	168.7	190.7	222.6	270.4	336.3	413.3	491.9	567.7	634.8
120°	164.9	172.6	180.3	201.7	231.4	273.7	332.5	402.3	473.2	541.3	599.6
122.5°	176.4	184.4	192.4	212.1	239.1	277.5	330.3	392.9	458.3	519.3	573.8
125°	187.4	195.1	202.8	222.6	247.3	281.4	327.5	384.2	444.1	500.7	549.0
127.5°	197.3	205.2	213.2	232.5	255.0	285.2	325.9	375.9	429.8	482.0	528.1
130°	206.6	214.3	222.0	241.3	262.1	289.6	324.8	367.7	416.0	463.3	506.7
132.5°	215.4	223.1	230.8	249.0	269.3	294.0	324.2	361.1	402.8	445.7	484.7
135°	223.1	230.8	238.5	256.1	275.3	297.3	323.7	355.0	390.7	427.0	463.3
137.5°	230.3	237.4	244.6	262.1	280.3	300.6	323.7	350.6	380.9	412.2	441.9
140°	236.3	243.4	250.6	267.1	284.1	302.8	323.1	346.8	371.5	397.9	423.2
142.5°	241.8	248.4	255.0	270.9	287.4	304.5	323.1	342.9	363.8	385.3	406.1
145°	247.9	253.9	259.9	274.8	290.2	305.6	322.0	339.6	356.7	374.8	391.8
147.5°	252.8	258.3	263.8	278.1	291.8	306.1	320.4	336.3	351.2	366.0	379.8
150°	257.7	262.6	267.6	280.3	292.9	305.6	318.8	331.9	345.1	357.2	368.8
152.5°	262.7	267.1	271.5	282.5	293.5	304.5	316.0	328.1	339.1	350.1	359.4
155°	267.1	271.2	275.3	284.7	294.0	303.4	312.7	323.1	333.6	342.4	350.6
157.5°	270.9	274.5	278.1	286.3	294.0	301.2	309.4	318.8	327.0	334.7	341.8
160°	274.8	277.8	280.8	287.4	294.0	299.5	306.1	313.8	321.0	327.0	333.0
162.5°	278.1	280.3	282.5	288.0	293.5	297.9	303.4	309.4	314.9	319.9	324.8
165°	280.3	282.0	283.6	288.5	292.4	295.7	299.5	304.5	308.9	312.7	316.6
167.5°	282.5	283.6	284.7	288.5	291.8	293.5	296.2	299.5	302.8	306.1	308.9
170°	283.6	284.4	285.2	288.0	290.7	291.8	293.5	295.7	298.4	300.1	302.3
172.5°	284.7	285.2	285.8	287.4	289.1	289.6	290.2	291.8	293.5	294.6	296.2
175°	285.2	285.5	285.8	286.9	288.0	287.4	288.0	288.5	290.2	290.7	291.3
177.5°	285.8	285.8	285.8	286.3	287.4	286.3	285.8	286.3	287.4	287.4	288.0
180°	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	886.9	889.0	884.0	882.6	884.0	879.0	880.4	881.9	881.9	884.0	885.5
5°	835.4	832.5	827.5	826.1	824.7	826.8	825.4	827.5	828.2	833.2	834.0
7.5°	784.6	780.3	776.0	771.7	770.3	766.7	770.3	770.3	775.3	773.9	777.5
10°	724.5	723.8	718.1	715.9	713.1	707.4	715.2	713.1	716.7	723.1	724.5
12.5°	680.2	672.3	675.9	665.9	669.5	663.7	664.4	664.4	670.2	670.9	669.5
15°	638.0	631.5	622.3	618.0	615.8	613.0	622.3	623.0	618.7	628.7	625.1
17.5°	595.1	595.1	586.5	584.3	578.6	581.5	580.1	580.8	579.3	586.5	590.1
20°	557.9	554.3	551.4	552.2	545.0	543.6	542.1	543.6	548.6	553.6	555.0
22.5°	527.8	525.7	518.5	520.0	514.3	516.4	515.0	518.5	519.3	519.3	524.3
25°	499.2	496.4	497.1	494.2	492.1	492.1	489.9	492.1	494.9	496.4	497.1
27.5°	477.8	475.6	472.1	469.9	471.3	467.8	470.6	472.8	472.8	471.3	472.8
30°	452.0	453.5	453.5	446.3	449.2	447.7	449.9	451.3	451.3	452.0	450.6
32.5°	434.9	430.6	429.9	429.1	429.1	426.3	426.3	428.4	429.1	429.9	432.0
35°	412.0	412.0	408.4	410.5	407.7	408.4	407.7	408.4	409.8	407.7	409.8
37.5°	391.2	391.9	390.5	391.9	392.7	391.2	389.8	392.7	391.2	391.2	389.8
40°	373.4	372.6	373.4	373.4	373.4	374.1	372.6	372.6	372.6	371.2	369.8
42.5°	358.3	354.0	355.5	356.2	354.0	354.0	354.8	354.0	356.2	351.9	351.9
45°	336.9	335.4	336.2	336.2	337.6	335.4	336.9	337.6	335.4	334.7	333.3
47.5°	317.6	319.0	317.6	319.0	319.0	320.4	317.6	318.3	319.0	316.1	314.0
50°	298.3	298.3	300.4	299.7	300.4	299.0	299.0	298.3	299.0	297.5	295.4
52.5°	280.4	278.2	281.8	281.1	280.4	279.7	278.9	279.7	278.2	276.8	276.8
55°	258.2	258.2	260.3	261.1	261.1	259.6	258.2	258.9	258.2	257.5	256.8
57.5°	240.3	237.5	238.9	239.6	239.6	237.5	238.9	237.5	237.5	238.2	236.0
60°	217.4	217.4	216.0	218.1	218.1	216.7	216.7	217.4	216.0	215.3	214.6
62.5°	193.1	193.8	196.0	196.7	197.4	196.0	194.5	195.3	195.3	193.1	193.8
65°	172.4	173.8	176.7	175.9	174.5	175.2	173.8	174.5	172.4	173.1	170.9
67.5°	152.3	151.6	152.3	152.3	153.8	153.1	151.6	151.6	150.9	153.1	150.9
70°	130.9	130.9	130.9	130.9	131.6	132.3	130.9	129.5	130.2	128.7	128.0
72.5°	108.7	109.4	108.7	110.1	108.0	109.4	109.4	108.7	108.0	108.0	108.0
75°	88.0	89.4	87.3	88.0	87.3	88.7	88.0	88.0	86.5	85.8	86.5
77.5°	67.2	67.9	66.5	67.2	66.5	67.2	67.2	66.5	66.5	66.5	66.5
80°	47.9	48.6	47.9	47.2	46.5	47.9	46.5	47.2	47.9	47.2	48.6
82.5°	30.8	30.8	30.0	30.8	29.3	29.3	30.0	30.0	29.3	30.8	29.3
85°	15.0	15.0	16.5	15.0	14.3	14.3	14.3	15.0	14.3	15.7	15.0
87.5°	3.6	2.9	3.6	3.6	2.9	2.9	3.6	2.9	3.6	4.3	2.9
90°	17.8	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	17.8
92.5°	39.0	36.8	36.3	34.1	34.6	33.5	34.6	34.1	36.3	36.8	39.0
95°	81.4	75.3	68.1	63.8	62.1	62.7	62.1	63.8	68.1	75.3	81.4
97.5°	163.2	146.7	125.3	114.3	108.3	105.0	108.3	114.3	125.3	146.7	163.2
100°	325.0	291.8	246.2	222.6	206.6	196.7	206.6	222.6	246.2	291.8	325.0
102.5°	549.6	513.9	463.3	418.8	397.9	383.6	397.9	418.8	463.3	513.9	549.6
105°	727.9	718.8	684.8	650.7	627.1	619.4	627.1	650.7	684.8	718.8	727.9
107.5°	792.5	803.5	802.9	798.0	790.8	778.2	790.8	798.0	802.9	803.5	792.5
110°	782.0	804.6	828.2	838.6	843.6	843.0	843.6	838.6	828.2	804.6	782.0

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	746.6	773.2	808.4	827.7	838.1	841.9	838.1	827.7	808.4	773.2	746.6
115°	703.2	731.5	770.5	795.8	810.1	815.0	810.1	795.8	770.5	731.5	703.2
117.5°	661.7	688.6	728.7	755.7	770.5	774.3	770.5	755.7	728.7	688.6	661.7
120°	624.6	649.6	688.1	713.9	729.8	735.3	729.8	713.9	688.1	649.6	624.6
122.5°	595.8	617.7	651.2	676.5	690.3	694.7	690.3	676.5	651.2	617.7	595.8
125°	569.6	590.2	622.1	643.0	656.7	661.1	656.7	643.0	622.1	590.2	569.6
127.5°	547.4	566.6	594.6	614.4	626.5	629.8	626.5	614.4	594.6	566.6	547.4
130°	524.8	543.0	569.9	588.6	599.6	604.0	599.6	588.6	569.9	543.0	524.8
132.5°	501.4	518.2	544.6	563.3	573.2	577.1	573.2	563.3	544.6	518.2	501.4
135°	478.7	494.1	517.7	535.8	545.7	547.9	545.7	535.8	517.7	494.1	478.7
137.5°	455.6	469.3	491.9	507.8	516.6	519.9	516.6	507.8	491.9	469.3	455.6
140°	435.3	447.4	464.9	479.2	487.5	490.8	487.5	479.2	464.9	447.4	435.3
142.5°	415.8	425.4	441.9	454.5	461.6	461.6	461.6	454.5	441.9	425.4	415.8
145°	399.8	407.8	421.0	430.3	435.8	437.5	435.8	430.3	421.0	407.8	399.8
147.5°	385.8	391.8	403.4	411.1	414.9	416.0	414.9	411.1	403.4	391.8	385.8
150°	373.8	378.7	386.9	393.5	396.8	397.3	396.8	393.5	386.9	378.7	373.8
152.5°	363.5	367.7	373.7	379.2	381.4	381.4	381.4	379.2	373.7	367.7	363.5
155°	353.6	356.7	362.7	366.6	368.8	367.7	368.8	366.6	362.7	356.7	353.6
157.5°	344.3	346.8	351.2	354.5	355.6	355.6	355.6	354.5	351.2	346.8	344.3
160°	335.0	336.9	340.7	343.5	344.0	344.0	344.0	343.5	340.7	336.9	335.0
162.5°	326.2	327.5	331.4	333.0	333.6	333.0	333.6	333.0	331.4	327.5	326.2
165°	317.7	318.8	321.0	323.1	323.1	322.6	323.1	323.1	321.0	318.8	317.7
167.5°	310.0	311.1	312.2	313.3	313.3	312.7	313.3	313.3	312.2	311.1	310.0
170°	302.8	303.4	303.9	305.6	305.0	303.9	305.0	305.6	303.9	303.4	302.8
172.5°	296.5	296.8	297.3	297.9	297.3	296.8	297.3	297.9	297.3	296.8	296.5
175°	291.6	291.8	291.8	292.4	291.8	290.7	291.8	292.4	291.8	291.8	291.6
177.5°	288.0	288.0	288.0	288.0	287.4	286.3	287.4	288.0	288.0	288.0	288.0
180°	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5	930.5
2.5°	883.3	889.0	886.9	879.0	888.3	888.3	894.8	894.8	902.6	905.5	909.8
5°	833.2	837.5	841.1	837.5	844.0	854.0	859.7	864.7	875.4	879.7	886.2
7.5°	779.6	787.5	791.0	791.0	801.8	813.2	824.7	831.8	846.8	852.6	859.0
10°	727.4	736.7	743.8	743.1	761.0	768.2	782.5	798.9	813.9	822.5	831.8
12.5°	672.3	677.3	687.3	701.6	705.9	718.8	735.3	756.0	783.2	791.0	804.6
15°	626.5	640.1	648.0	654.4	664.4	676.6	694.5	714.5	741.7	758.9	773.2
17.5°	587.9	605.8	610.8	609.4	622.3	640.8	661.6	676.6	700.9	721.7	735.3
20°	556.4	563.6	572.2	575.8	585.8	605.8	625.8	643.0	663.0	679.5	695.2
22.5°	525.0	530.7	537.9	544.3	552.2	563.6	582.9	604.4	623.7	639.4	657.3
25°	499.2	502.8	509.2	514.3	522.8	530.7	544.3	567.9	590.8	600.1	615.8
27.5°	474.2	477.1	481.4	487.1	491.4	499.2	511.4	530.7	554.3	563.6	585.1
30°	452.0	454.2	458.5	461.3	463.5	472.8	482.1	497.1	515.0	527.8	543.6
32.5°	431.3	433.4	437.7	438.4	441.3	446.3	454.9	468.5	484.2	494.9	508.5
35°	408.4	409.8	414.1	415.5	417.7	422.0	428.4	438.4	452.7	460.6	472.8
37.5°	390.5	389.8	392.7	394.8	397.7	399.8	402.0	412.0	422.7	429.9	439.2
40°	371.2	369.8	370.5	373.4	374.8	377.6	377.6	387.7	394.8	400.5	407.7
42.5°	351.9	351.2	349.7	351.2	352.6	353.3	354.0	361.2	368.3	373.4	381.2
45°	332.6	331.9	330.4	331.2	331.2	332.6	334.7	337.6	342.6	346.9	351.2
47.5°	314.7	313.3	311.1	310.4	311.8	311.8	311.8	314.7	319.7	321.1	325.4
50°	296.1	294.0	291.1	289.7	289.7	289.0	290.4	291.1	295.4	296.8	300.4
52.5°	276.1	274.6	271.8	268.9	269.6	268.2	268.9	269.6	271.1	273.2	275.4
55°	256.1	253.2	251.0	250.3	248.2	248.2	246.0	248.9	248.2	248.9	251.8
57.5°	236.7	233.9	230.3	228.9	226.7	226.0	224.6	223.9	224.6	226.7	228.9
60°	213.9	212.4	210.3	208.1	206.7	204.6	203.1	203.1	202.4	202.4	203.1
62.5°	191.7	191.0	188.1	187.4	186.0	184.5	182.4	181.0	181.0	182.4	183.1
65°	170.2	169.5	167.4	166.6	163.1	161.6	160.9	160.2	158.8	158.8	158.8
67.5°	150.2	148.1	148.1	144.5	141.6	140.2	138.8	138.0	138.0	138.0	138.8
70°	128.0	128.0	125.9	123.7	120.9	121.6	119.4	117.3	117.3	115.9	116.6
72.5°	106.6	105.9	103.7	103.0	100.8	98.7	97.3	98.7	96.6	95.8	96.6
75°	85.8	85.1	83.7	82.3	83.0	80.8	78.7	78.0	78.0	76.5	76.5
77.5°	65.8	67.2	64.4	63.7	62.2	60.8	60.1	59.4	59.4	59.4	60.8
80°	45.8	46.5	46.5	45.1	45.8	43.6	43.6	43.6	41.5	42.2	42.9
82.5°	29.3	29.3	28.6	29.3	28.6	28.6	27.9	27.9	27.2	27.2	27.9
85°	16.5	15.7	15.0	16.5	15.7	15.7	15.0	15.0	15.0	15.0	15.0
87.5°	3.6	4.3	4.3	4.3	4.3	5.0	5.0	5.0	5.7	5.7	5.7
90°	17.6	16.5	17.6	18.1	18.7	18.1	14.8	11.0	8.2	7.4	6.6
92.5°	41.2	47.3	55.5	70.9	84.6	83.5	64.8	44.0	29.1	26.1	23.1
95°	87.4	110.5	144.0	188.5	215.4	190.7	127.0	79.1	53.9	47.3	40.7
97.5°	179.7	235.2	294.6	353.9	351.2	271.5	168.7	102.2	69.8	62.4	55.0
100°	358.3	433.6	501.8	513.3	434.2	299.0	180.3	113.2	84.1	76.4	68.7
102.5°	585.3	635.3	637.5	572.7	436.9	288.5	180.8	123.1	96.7	89.0	81.3
105°	737.0	729.8	667.7	553.4	407.2	274.2	183.6	134.6	108.8	101.1	93.4
107.5°	781.5	727.6	635.3	512.8	379.8	266.5	189.6	146.2	120.9	113.2	105.5
110°	759.5	689.2	590.8	474.8	361.1	264.3	197.3	157.7	133.5	125.6	117.6

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	719.9	643.5	550.1	448.5	349.0	264.9	205.5	168.7	145.6	137.4	129.1
115°	674.9	602.9	518.2	427.6	340.7	267.1	213.8	180.3	156.6	149.2	141.8
117.5°	634.8	567.7	491.9	413.3	336.3	270.4	222.6	190.7	168.7	161.0	153.3
120°	599.6	541.3	473.2	402.3	332.5	273.7	231.4	201.7	180.3	172.6	164.9
122.5°	573.8	519.3	458.3	392.9	330.3	277.5	239.1	212.1	192.4	184.4	176.4
125°	549.0	500.7	444.1	384.2	327.5	281.4	247.3	222.6	202.8	195.1	187.4
127.5°	528.1	482.0	429.8	375.9	325.9	285.2	255.0	232.5	213.2	205.2	197.3
130°	506.7	463.3	416.0	367.7	324.8	289.6	262.1	241.3	222.0	214.3	206.6
132.5°	484.7	445.7	402.8	361.1	324.2	294.0	269.3	249.0	230.8	223.1	215.4
135°	463.3	427.0	390.7	355.0	323.7	297.3	275.3	256.1	238.5	230.8	223.1
137.5°	441.9	412.2	380.9	350.6	323.7	300.6	280.3	262.1	244.6	237.4	230.3
140°	423.2	397.9	371.5	346.8	323.1	302.8	284.1	267.1	250.6	243.4	236.3
142.5°	406.1	385.3	363.8	342.9	323.1	304.5	287.4	270.9	255.0	248.4	241.8
145°	391.8	374.8	356.7	339.6	322.0	305.6	290.2	274.8	259.9	253.9	247.9
147.5°	379.8	366.0	351.2	336.3	320.4	306.1	291.8	278.1	263.8	258.3	252.8
150°	368.8	357.2	345.1	331.9	318.8	305.6	292.9	280.3	267.6	262.6	257.7
152.5°	359.4	350.1	339.1	328.1	316.0	304.5	293.5	282.5	271.5	267.1	262.7
155°	350.6	342.4	333.6	323.1	312.7	303.4	294.0	284.7	275.3	271.2	267.1
157.5°	341.8	334.7	327.0	318.8	309.4	301.2	294.0	286.3	278.1	274.5	270.9
160°	333.0	327.0	321.0	313.8	306.1	299.5	294.0	287.4	280.8	277.8	274.8
162.5°	324.8	319.9	314.9	309.4	303.4	297.9	293.5	288.0	282.5	280.3	278.1
165°	316.6	312.7	308.9	304.5	299.5	295.7	292.4	288.5	283.6	282.0	280.3
167.5°	308.9	306.1	302.8	299.5	296.2	293.5	291.8	288.5	284.7	283.6	282.5
170°	302.3	300.1	298.4	295.7	293.5	291.8	290.7	288.0	285.2	284.4	283.6
172.5°	296.2	294.6	293.5	291.8	290.2	289.6	289.1	287.4	285.8	285.2	284.7
175°	291.3	290.7	290.2	288.5	288.0	287.4	288.0	286.9	285.8	285.5	285.2
177.5°	288.0	287.4	287.4	286.3	285.8	286.3	287.4	286.3	285.8	285.8	285.8
180°	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8	285.8

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	930.5	930.5	930.5	930.5
2.5°	913.3	913.3	924.1	935.5
5°	893.3	898.3	915.5	931.2
7.5°	874.0	882.6	904.1	924.1
10°	850.4	861.9	888.3	911.9
12.5°	827.5	838.3	869.0	895.5
15°	795.3	808.9	841.8	874.7
17.5°	763.2	776.7	816.8	855.4
20°	725.2	743.1	788.2	839.7
22.5°	690.2	712.4	762.4	803.9
25°	651.6	685.9	732.4	786.0
27.5°	617.2	651.6	698.8	753.1
30°	578.6	613.7	662.3	712.4
32.5°	541.4	573.6	620.8	682.3
35°	502.8	533.6	579.3	641.6
37.5°	467.8	497.8	547.9	605.1
40°	433.4	464.9	507.8	565.0
42.5°	401.2	429.1	467.8	525.0
45°	371.9	391.9	427.7	481.4
47.5°	341.2	359.0	391.9	445.6
50°	312.6	327.6	356.2	406.3
52.5°	284.7	297.5	324.0	364.1
55°	259.6	271.8	291.1	330.4
57.5°	233.9	243.2	261.8	293.2
60°	208.8	217.4	232.4	258.2
62.5°	183.8	191.0	205.3	226.0
65°	161.6	167.4	178.1	196.0
67.5°	140.2	143.8	152.3	166.6
70°	119.4	122.3	129.5	140.9
72.5°	97.3	100.1	108.0	115.9
75°	78.7	79.4	85.1	91.5
77.5°	61.5	60.8	65.1	70.1
80°	42.2	44.3	47.9	50.1
82.5°	28.6	29.3	30.8	32.2
85°	15.7	16.5	16.5	18.6
87.5°	6.4	7.2	7.2	7.9
90°	5.5	4.4	2.2	0.5
92.5°	18.7	15.9	11.5	8.2
95°	31.9	26.9	21.4	19.2
97.5°	45.1	37.9	31.9	28.6
100°	57.7	48.9	44.0	42.3
102.5°	69.8	61.0	56.1	55.0
105°	81.3	73.1	69.2	67.0
107.5°	93.4	85.7	81.9	80.2
110°	106.1	98.9	95.6	93.4



TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-XX-W2A-A4

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	118.2	111.6	107.7	105.5
115°	130.8	124.2	120.9	118.2
117.5°	142.9	136.8	133.5	131.3
120°	153.9	148.9	145.6	143.4
122.5°	165.4	159.9	156.6	155.0
125°	176.4	169.8	166.5	164.9
127.5°	186.9	179.7	175.3	173.1
130°	195.6	188.0	182.5	180.3
132.5°	203.9	195.6	189.6	186.9
135°	210.5	202.2	195.6	193.4
137.5°	217.6	208.8	202.2	199.5
140°	224.2	215.4	208.8	206.6
142.5°	230.3	221.5	215.4	213.8
145°	236.9	228.6	223.1	220.9
147.5°	243.5	235.8	230.3	228.6
150°	249.5	242.4	238.0	236.3
152.5°	255.0	249.0	244.6	244.0
155°	261.0	255.0	251.7	251.2
157.5°	266.0	260.5	257.7	257.2
160°	270.4	266.0	263.8	263.2
162.5°	274.2	270.9	268.7	269.3
165°	277.5	274.2	273.1	273.7
167.5°	280.3	278.1	277.0	277.5
170°	282.5	280.8	280.3	281.4
172.5°	284.1	282.5	283.0	283.6
175°	285.2	284.1	284.7	285.2
177.5°	285.8	284.7	285.2	286.3
180°	285.8	285.8	285.8	285.8

TEST NUMBER: P998548

CATALOG NUMBER: SA2XXDIP-B485D530UB50-4F0-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	15.26	16.10	16.22	17.07	18.33	12.76	13.59	13.71	14.56	15.82
	3H	16.07	16.82	17.04	17.80	19.08	14.10	14.85	15.07	15.82	17.11
	4H	16.24	16.95	17.22	17.93	19.22	14.56	15.27	15.54	16.25	17.54
	6H	16.28	16.93	17.28	17.92	19.23	14.87	15.52	15.86	16.50	17.81
	8H	16.26	16.88	17.26	17.88	19.19	14.95	15.57	15.95	16.57	17.87
	12H	16.22	16.81	17.23	17.81	19.14	14.99	15.58	15.99	16.57	17.90
4H	2H	15.30	16.01	16.29	16.99	18.28	13.20	13.90	14.19	14.89	16.18
	3H	16.28	16.87	17.28	17.88	19.18	14.66	15.24	15.65	16.25	17.56
	4H	16.56	17.09	17.56	18.09	19.43	15.19	15.73	16.20	16.73	18.06
	6H	16.68	17.14	17.70	18.17	19.50	15.57	16.03	16.59	17.06	18.38
	8H	16.68	17.11	17.70	18.13	19.47	15.68	16.11	16.70	17.13	18.47
	12H	16.65	17.03	17.68	18.07	19.42	15.73	16.12	16.77	17.16	18.51
8H	4H	16.56	16.99	17.58	18.01	19.35	15.33	15.76	16.35	16.78	18.12
	6H	16.74	17.09	17.78	18.16	19.50	15.77	16.12	16.81	17.18	18.52
	8H	16.77	17.08	17.82	18.13	19.49	15.92	16.23	16.97	17.27	18.63
	12H	16.75	17.03	17.81	18.07	19.47	16.01	16.28	17.06	17.32	18.73
12H	4H	16.52	16.91	17.55	17.94	19.29	15.30	15.69	16.34	16.73	18.08
	6H	16.72	17.03	17.77	18.08	19.44	15.76	16.08	16.81	17.12	18.48
	8H	16.75	17.02	17.80	18.07	19.47	15.92	16.20	16.97	17.24	18.64