

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: P998469

Luminaire Tested: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998469
REPORT IS A COMBINATION OF REPORTS P984212 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

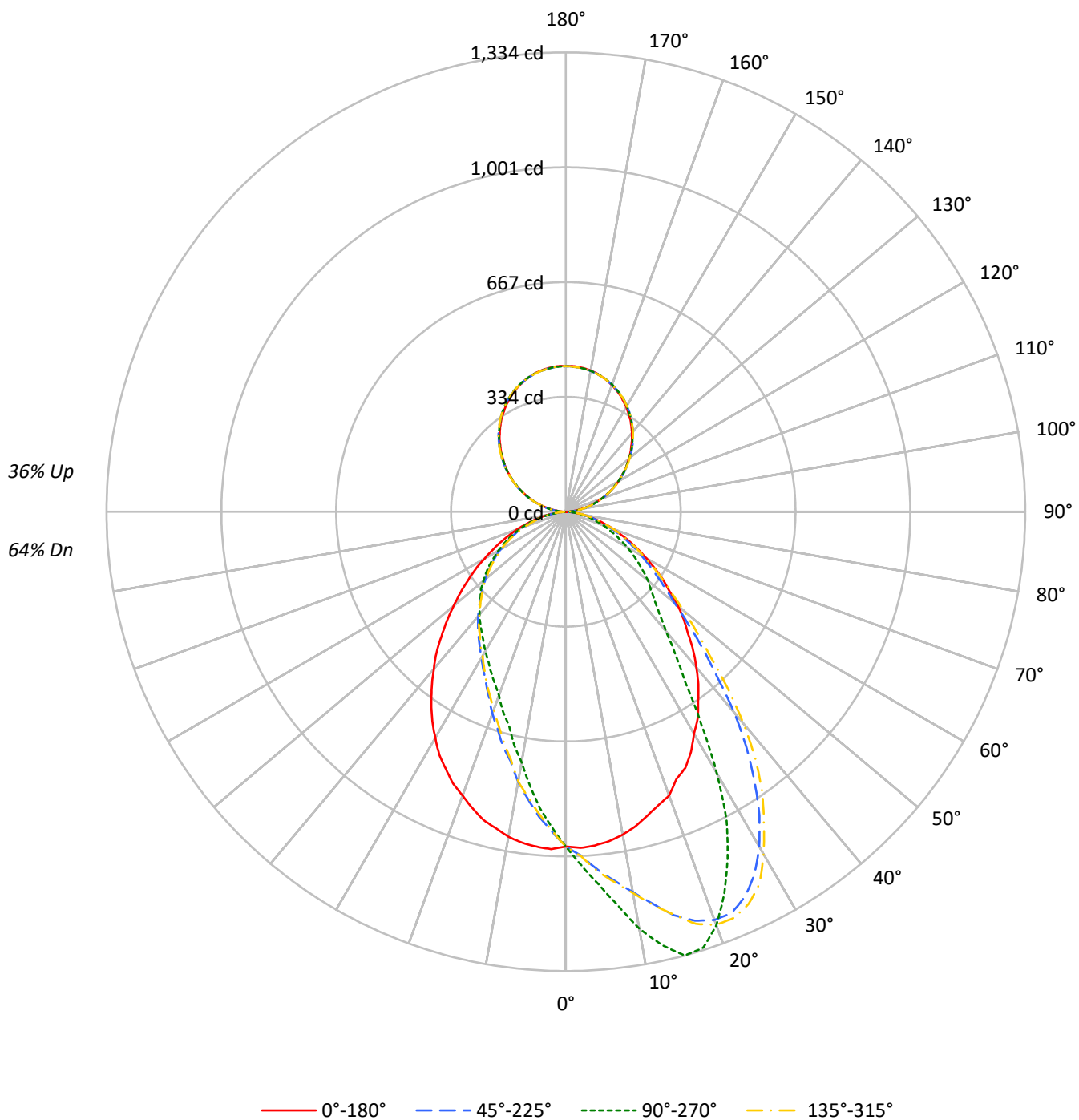
Lumens per Lamp: N/A
Luminaire Lumens: 3328.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64		
1	102	97	94	90	95	92	89	86	81	79	76	71	70	68	62	61	60	56		
2	93	86	80	75	87	81	76	71	72	68	64	63	60	58	56	53	51	48		
3	85	76	69	63	80	72	65	60	64	59	55	57	53	50	50	47	44	41		
4	78	68	60	54	74	64	57	52	57	52	47	51	47	43	45	42	39	36		
5	72	61	53	47	68	58	50	45	52	46	41	46	41	38	41	37	34	31		
6	67	55	47	41	63	52	45	40	47	41	37	42	37	34	37	34	31	28		
7	62	50	42	36	58	47	40	35	43	37	33	38	34	30	34	30	27	25		
8	58	46	38	33	54	43	36	31	39	33	29	35	30	27	32	28	25	23		
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	29	25	23	21		
10	51	39	31	27	48	37	30	26	33	28	24	30	26	22	27	23	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15383	15383	15383	15383
5°	15419	16401	15478	13049
10°	15240	17905	15336	10758
15°	14871	18885	15077	9062
20°	14638	17732	14638	7877
25°	14172	15233	14236	7044
30°	13404	11974	13659	6380
35°	12724	8280	12937	5837
40°	11943	6252	12079	5404
45°	10979	5138	11158	4937
50°	10147	4510	10163	4520
55°	9196	3842	9254	4066
60°	8181	3210	8296	3549
65°	7277	2610	7408	3031
70°	6370	2049	6535	2445
75°	5348	1487	5555	1772
80°	4176	942	4471	1051
85°	2740	475	2952	350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15901 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	2.8
10°-20°	269.4	8.1
20°-30°	391.0	11.7
30°-40°	412.2	12.4
40°-50°	364.7	11.0
50°-60°	291.2	8.8
60°-70°	197.8	5.9
70°-80°	101.2	3.0
80°-90°	25.1	0.8
90°-100°	26.2	0.8
100°-110°	83.2	2.5
110°-120°	142.4	4.3
120°-130°	187.2	5.6
130°-140°	210.2	6.3
140°-150°	206.1	6.2
150°-160°	172.9	5.2
160°-170°	114.7	3.4
170°-180°	40.1	1.2
0°-30°	752.9	22.6
0°-40°	1165.1	35.0
0°-60°	1821.1	54.7
0°-90°	2145.2	64.5
90°-120°	251.7	7.6
90°-150°	855.2	25.7
90°-180°	1183.0	35.5
0°-180°	3328.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	972	972	972	972	972	
5°	972	1085	976	864	972	92
15°	914	1334	926	640	914	258
25°	821	1111	825	514	821	375
35°	670	605	681	426	670	419
45°	503	364	511	350	503	390
55°	345	256	347	271	345	308
65°	205	158	208	183	205	203
75°	96	78	99	93	96	103
85°	19	20	21	15	19	23
90°	0	12	0	12	0	2
95°	19	22	19	22	19	21
105°	77	79	77	79	77	81
115°	143	143	143	143	143	141
125°	208	208	208	208	208	186
135°	269	272	269	272	269	208
145°	326	330	326	330	326	204
155°	373	376	373	376	373	172
165°	406	406	406	406	406	115
175°	422	421	422	421	422	40
180°	423	423	423	423	423	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	977.0	979.2	983.0	983.7	991.2	997.2	1003.9	1003.9	1006.1	1005.4	999.4
5°	972.5	979.2	988.9	997.2	1010.6	1016.6	1025.5	1032.3	1038.2	1042.7	1042.0
7.5°	965.0	977.0	991.2	1006.9	1024.8	1035.3	1047.9	1059.9	1068.1	1075.6	1080.8
10°	952.3	972.5	991.9	1012.8	1036.0	1050.2	1065.1	1080.8	1093.5	1107.7	1121.1
12.5°	935.2	964.3	988.2	1015.8	1044.2	1059.9	1083.8	1095.8	1120.4	1156.3	1166.0
15°	913.5	953.1	975.5	1010.6	1047.9	1060.6	1093.5	1112.9	1163.7	1186.1	1213.0
17.5°	893.3	937.4	967.3	1007.6	1044.2	1068.9	1101.0	1140.6	1183.1	1215.3	1245.1
20°	876.9	919.5	955.3	1000.1	1046.5	1077.8	1111.4	1159.2	1205.6	1238.4	1261.6
22.5°	839.6	894.1	935.9	986.0	1042.0	1085.3	1117.4	1169.7	1219.7	1239.9	1260.1
25°	820.9	867.9	916.5	973.3	1039.0	1090.5	1118.2	1176.4	1220.5	1228.0	1232.4
27.5°	786.5	839.6	896.3	961.3	1038.2	1081.6	1116.7	1169.7	1204.8	1199.6	1186.1
30°	743.9	808.9	871.7	941.9	1027.8	1074.8	1107.7	1156.3	1174.2	1147.3	1123.4
32.5°	712.6	773.8	843.3	924.7	1015.8	1060.6	1092.8	1130.9	1134.6	1086.0	1045.7
35°	670.0	738.0	816.4	902.3	995.7	1036.0	1065.9	1089.0	1071.1	1003.1	955.3
37.5°	631.9	699.1	782.8	870.2	968.0	1007.6	1031.5	1035.3	991.2	931.4	861.2
40°	590.1	659.5	746.9	838.8	937.4	971.8	986.7	975.5	912.0	842.5	761.1
42.5°	548.2	617.0	711.1	805.2	898.6	927.7	933.7	903.0	825.4	743.9	649.8
45°	502.7	574.4	668.5	763.4	853.7	870.2	870.9	826.9	735.0	649.8	562.4
47.5°	465.3	531.8	625.2	720.0	796.2	807.4	803.0	752.2	652.1	556.5	480.3
50°	424.3	487.7	580.4	673.7	738.7	741.7	730.5	658.0	560.2	472.8	412.3
52.5°	380.2	444.4	529.6	619.2	677.5	673.0	651.3	573.6	481.8	409.3	363.0
55°	345.1	401.9	481.8	569.2	610.2	597.5	573.6	494.5	422.0	360.8	320.4
57.5°	306.2	356.3	434.7	510.9	534.8	522.9	499.0	425.0	357.8	311.5	284.6
60°	269.6	315.2	383.9	447.4	466.1	453.4	425.8	359.3	310.7	271.9	251.7
62.5°	236.0	275.6	333.1	391.4	398.9	386.2	362.3	308.5	266.7	236.0	221.1
65°	204.7	242.0	288.3	332.4	339.1	325.7	301.0	262.2	227.1	207.6	193.5
67.5°	174.0	203.9	245.0	277.1	280.8	268.1	248.0	216.6	194.9	174.0	163.6
70°	147.1	169.6	201.7	227.8	229.3	217.4	206.9	178.5	162.1	147.1	138.9
72.5°	121.0	136.7	161.3	180.8	181.5	174.0	164.3	146.4	132.2	121.8	113.5
75°	95.6	109.1	124.0	141.2	140.4	134.4	127.0	115.8	103.8	97.1	93.4
77.5°	73.2	81.4	93.4	104.6	104.6	101.6	97.1	88.9	81.4	74.7	71.0
80°	52.3	57.5	67.2	71.0	72.5	71.7	68.0	62.0	59.0	53.8	52.3
82.5°	33.6	37.3	41.8	45.6	47.8	46.3	45.6	42.6	38.1	36.6	35.1
85°	19.4	20.9	23.2	25.4	26.1	25.4	26.9	24.6	22.4	22.4	21.7
87.5°	8.2	9.0	10.5	10.5	11.2	11.2	10.5	11.2	11.2	10.5	9.7
90°	0.4	1.3	2.3	3.2	4.1	4.6	5.5	7.2	9.0	10.7	12.5
92.5°	7.9	8.5	9.1	9.8	10.4	10.7	10.7	10.8	10.9	11.0	11.1
95°	18.6	19.4	20.2	20.9	21.7	22.1	22.2	22.3	22.5	22.6	22.8
97.5°	31.1	31.8	32.5	33.2	33.9	34.3	34.5	34.8	35.1	35.4	35.7
100°	45.3	45.9	46.6	47.2	47.9	48.2	48.3	48.6	48.8	49.1	49.3
102.5°	60.3	60.8	61.3	61.8	62.3	62.5	62.7	63.0	63.3	63.6	63.9
105°	76.8	77.0	77.2	77.5	77.7	77.8	77.9	78.0	78.2	78.3	78.5
107.5°	93.2	93.5	93.8	94.1	94.4	94.6	94.6	94.6	94.6	94.6	94.6
110°	108.9	109.4	109.8	110.3	110.8	111.0	111.0	111.0	111.0	111.0	111.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	126.0	126.5	127.0	127.5	128.0	128.2	128.2	128.1	128.0	127.9	127.8
115°	142.8	143.3	143.7	144.2	144.7	144.9	144.8	144.7	144.5	144.4	144.2
117.5°	159.6	160.2	160.8	161.5	162.1	162.4	162.2	161.8	161.5	161.1	160.7
120°	176.4	177.0	177.6	178.3	178.9	179.2	178.9	178.3	177.6	177.0	176.4
122.5°	191.7	192.5	193.3	194.1	194.9	195.3	195.1	194.7	194.3	193.9	193.5
125°	207.8	208.5	209.2	209.9	210.6	211.0	210.9	210.6	210.4	210.1	209.9
127.5°	223.5	224.4	225.2	226.1	227.0	227.4	227.2	226.9	226.6	226.3	226.0
130°	238.1	239.1	240.2	241.2	242.3	242.8	242.7	242.6	242.4	242.3	242.1
132.5°	254.6	255.4	256.2	256.9	257.7	258.1	258.1	258.2	258.3	258.4	258.5
135°	268.8	269.7	270.6	271.5	272.4	272.8	272.9	273.0	273.2	273.3	273.5
137.5°	284.5	285.2	286.0	286.7	287.4	287.8	287.9	288.0	288.2	288.3	288.5
140°	298.5	299.2	299.9	300.6	301.3	301.7	301.9	302.3	302.7	303.1	303.5
142.5°	312.7	313.4	314.2	314.9	315.6	316.0	316.1	316.3	316.6	316.8	317.0
145°	326.3	326.9	327.4	328.0	328.5	328.8	329.0	329.5	330.0	330.5	331.0
147.5°	338.4	339.1	339.9	340.6	341.3	341.7	341.9	342.2	342.5	342.8	343.1
150°	350.9	351.4	351.9	352.4	352.9	353.1	353.3	353.6	353.9	354.2	354.5
152.5°	362.0	362.5	363.0	363.5	364.0	364.2	364.4	364.8	365.1	365.5	365.9
155°	373.1	373.3	373.5	373.8	374.0	374.1	374.2	374.5	374.7	375.0	375.2
157.5°	382.7	382.9	383.0	383.2	383.3	383.4	383.5	383.6	383.8	383.9	384.1
160°	391.3	391.5	391.6	391.8	391.9	392.0	392.0	392.1	392.2	392.3	392.4
162.5°	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.2	399.3	399.4	399.5
165°	405.9	405.8	405.8	405.7	405.6	405.6	405.6	405.6	405.6	405.6	405.6
167.5°	412.0	411.8	411.5	411.3	411.0	410.9	410.9	410.9	410.9	410.9	410.9
170°	416.6	416.4	416.2	415.9	415.7	415.6	415.6	415.5	415.4	415.3	415.2
172.5°	419.8	419.6	419.4	419.1	418.9	418.8	418.8	418.7	418.6	418.5	418.4
175°	422.3	422.1	421.9	421.6	421.4	421.3	421.2	421.1	420.9	420.8	420.6
177.5°	423.8	423.6	423.3	423.1	422.8	422.7	422.6	422.5	422.3	422.2	422.0
180°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	1009.9	1010.6	1012.1	1019.6	1023.3	1024.0	1021.1	1027.8	1030.0	1027.8	1026.3
5°	1057.7	1062.1	1071.1	1080.8	1080.1	1080.8	1085.3	1089.8	1091.3	1085.3	1087.5
7.5°	1099.5	1108.4	1118.2	1133.1	1133.1	1140.6	1143.6	1147.3	1156.3	1151.8	1150.3
10°	1147.3	1159.2	1177.2	1201.1	1201.8	1209.3	1216.8	1228.7	1232.4	1229.5	1230.9
12.5°	1207.0	1230.2	1231.7	1257.8	1269.8	1271.3	1283.2	1281.0	1288.5	1288.5	1301.2
15°	1233.2	1269.0	1289.2	1314.6	1322.1	1313.1	1322.8	1333.3	1334.0	1334.0	1333.3
17.5°	1280.2	1294.4	1314.6	1328.0	1331.0	1331.0	1331.8	1336.3	1333.3	1327.3	1331.8
20°	1290.0	1295.9	1303.4	1301.9	1303.4	1295.9	1288.5	1281.0	1281.7	1278.0	1289.2
22.5°	1272.0	1270.5	1253.4	1242.2	1242.2	1227.2	1213.0	1206.3	1199.6	1201.8	1205.6
25°	1227.2	1204.1	1183.1	1166.7	1163.0	1139.1	1119.7	1113.7	1102.5	1111.4	1112.9
27.5°	1155.5	1129.4	1095.8	1081.6	1062.1	1052.4	1039.0	1021.1	997.9	1011.3	1009.1
30°	1078.6	1039.7	1012.1	977.7	947.1	944.9	919.5	889.6	877.6	877.6	884.4
32.5°	992.7	941.1	900.8	852.3	822.4	809.7	779.1	749.2	755.9	733.5	741.7
35°	892.6	824.6	773.8	726.8	704.4	689.4	649.8	633.4	615.5	605.0	624.4
37.5°	797.0	718.6	653.6	602.0	593.8	566.9	540.0	529.6	519.1	523.6	522.9
40°	680.5	611.0	552.7	512.4	498.2	485.5	467.6	454.9	448.2	451.9	452.6
42.5°	575.1	516.9	473.6	445.2	433.2	424.3	415.3	404.8	402.6	402.6	405.6
45°	493.7	445.9	416.8	393.6	386.9	380.2	373.5	369.0	367.5	364.5	366.7
47.5°	428.7	390.6	372.7	355.5	348.1	346.6	340.6	338.4	335.4	334.6	335.4
50°	374.2	350.3	333.9	324.2	318.9	316.7	313.7	309.2	307.7	311.5	310.0
52.5°	336.1	313.7	304.7	295.0	292.1	289.1	284.6	285.3	284.6	283.1	283.1
55°	298.0	283.8	274.9	267.4	266.7	263.7	259.9	258.4	257.7	256.2	258.4
57.5°	267.4	256.2	248.0	241.3	238.3	238.3	234.5	231.5	231.5	230.8	231.5
60°	236.8	225.6	220.3	213.6	211.4	210.6	208.4	206.9	204.7	204.7	204.7
62.5°	208.4	199.4	193.5	187.5	188.2	184.5	181.5	180.0	180.0	180.8	180.8
65°	181.5	175.5	168.1	162.8	161.3	160.6	159.1	158.3	156.1	157.6	157.6
67.5°	156.9	148.6	144.2	141.9	139.7	138.9	137.4	135.9	135.2	134.4	135.9
70°	132.2	125.5	121.8	120.3	118.0	117.3	116.5	114.3	115.0	115.8	116.5
72.5°	109.8	103.8	103.1	98.6	98.6	98.6	95.6	97.1	96.4	94.9	96.4
75°	86.6	83.7	82.2	79.9	80.7	79.9	79.2	76.9	76.9	77.7	78.4
77.5°	68.7	65.7	65.0	62.7	61.2	62.7	61.2	60.5	60.5	61.2	61.2
80°	50.8	49.3	47.1	47.1	47.1	46.3	46.3	46.3	45.6	44.8	45.6
82.5°	33.6	33.6	32.9	32.1	32.9	31.4	32.1	32.1	32.1	32.1	32.1
85°	21.7	20.9	20.9	20.2	20.2	20.2	20.9	19.4	19.4	20.2	20.2
87.5°	9.7	9.7	9.7	10.5	9.7	9.7	9.7	10.5	9.7	9.7	9.7
90°	12.3	12.2	12.0	11.9	11.8	11.8	11.9	12.0	12.0	12.1	12.0
92.5°	11.2	11.2	11.3	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
95°	22.8	22.8	22.8	22.8	22.8	22.7	22.6	22.4	22.3	22.1	22.3
97.5°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
100°	49.3	49.3	49.3	49.3	49.3	49.3	49.2	49.1	49.0	48.9	49.0
102.5°	64.0	64.1	64.2	64.3	64.3	64.3	64.2	64.1	64.0	63.9	64.0
105°	78.7	78.9	79.0	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.3
107.5°	94.7	94.8	94.9	95.0	95.0	94.8	94.4	94.0	93.6	93.2	93.6
110°	111.0	111.0	111.0	111.0	111.0	110.9	110.7	110.4	110.2	110.0	110.2

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	127.6	127.3	127.1	126.8	126.7	126.6	126.5	126.3	126.2	126.0	126.2
115°	144.1	144.1	144.0	143.9	143.9	143.8	143.5	143.3	143.0	142.8	143.0
117.5°	160.5	160.2	160.0	159.7	159.6	159.5	159.2	159.0	158.7	158.5	158.7
120°	176.4	176.4	176.4	176.4	176.4	176.3	176.0	175.8	175.5	175.3	175.5
122.5°	193.3	193.0	192.8	192.5	192.4	192.3	192.2	192.0	191.9	191.7	191.9
125°	209.7	209.5	209.2	209.0	208.9	208.9	208.8	208.7	208.6	208.5	208.6
127.5°	225.7	225.4	225.1	224.8	224.6	224.5	224.2	224.0	223.7	223.5	223.7
130°	241.9	241.7	241.6	241.4	241.3	241.1	240.8	240.5	240.2	239.9	240.2
132.5°	258.1	257.7	257.3	256.9	256.7	256.6	256.3	256.1	255.8	255.6	255.8
135°	273.4	273.3	273.2	273.1	273.1	273.0	272.7	272.5	272.2	272.0	272.2
137.5°	288.4	288.3	288.2	288.1	288.1	287.9	287.6	287.3	287.0	286.7	287.0
140°	303.5	303.5	303.5	303.5	303.5	303.3	303.0	302.7	302.3	302.0	302.3
142.5°	317.1	317.2	317.3	317.4	317.4	317.2	316.9	316.6	316.3	316.0	316.3
145°	331.1	331.1	331.2	331.3	331.3	331.1	330.8	330.5	330.2	329.9	330.2
147.5°	343.3	343.4	343.6	343.7	343.8	343.6	343.3	343.0	342.7	342.4	342.7
150°	354.7	355.0	355.2	355.5	355.6	355.5	355.2	355.0	354.7	354.5	354.7
152.5°	366.2	366.6	366.9	367.2	367.4	367.2	366.9	366.6	366.2	365.9	366.2
155°	375.6	376.0	376.4	376.8	377.0	376.9	376.6	376.4	376.1	375.9	376.1
157.5°	384.7	385.2	385.8	386.3	386.6	386.4	386.0	385.7	385.3	384.9	385.3
160°	392.9	393.3	393.8	394.3	394.5	394.3	394.0	393.7	393.4	393.1	393.4
162.5°	400.1	400.6	401.2	401.7	402.0	401.8	401.4	401.0	400.6	400.2	400.6
165°	406.2	406.7	407.3	407.8	408.1	407.9	407.5	407.1	406.7	406.3	406.7
167.5°	411.5	412.0	412.6	413.1	413.4	413.2	412.8	412.4	412.0	411.6	412.0
170°	415.8	416.3	416.9	417.4	417.7	417.5	417.0	416.5	416.1	415.6	416.1
172.5°	419.0	419.5	420.1	420.6	420.9	420.7	420.2	419.7	419.3	418.8	419.3
175°	421.2	421.7	422.3	422.8	423.1	422.9	422.4	421.9	421.4	420.9	421.4
177.5°	422.5	422.9	423.4	423.9	424.1	423.9	423.4	422.9	422.5	422.0	422.5
180°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	1030.0	1024.8	1020.3	1021.1	1024.8	1021.8	1014.3	1004.6	1000.9	996.4	1000.9
5°	1092.0	1087.5	1078.6	1079.3	1077.1	1074.1	1062.1	1047.2	1047.2	1035.3	1033.8
7.5°	1153.3	1146.5	1140.6	1139.1	1130.9	1124.9	1114.4	1093.5	1085.3	1071.1	1062.9
10°	1222.0	1216.8	1210.0	1201.8	1197.3	1186.9	1169.7	1139.1	1124.1	1104.7	1090.5
12.5°	1291.4	1290.7	1275.8	1259.3	1258.6	1242.2	1230.2	1189.1	1169.0	1142.8	1109.2
15°	1335.5	1331.8	1323.6	1315.4	1317.6	1299.7	1272.8	1224.2	1210.8	1179.4	1143.6
17.5°	1334.8	1334.8	1332.5	1331.0	1328.8	1323.6	1308.6	1276.5	1254.8	1215.3	1181.6
20°	1292.2	1301.9	1304.1	1303.4	1310.9	1314.6	1313.9	1293.7	1276.5	1241.4	1207.0
22.5°	1207.0	1229.5	1239.2	1245.1	1260.8	1269.0	1288.5	1281.0	1276.5	1250.4	1221.2
25°	1127.9	1135.3	1164.5	1166.0	1187.6	1207.8	1227.2	1239.9	1256.3	1246.6	1222.0
27.5°	1025.5	1042.7	1063.6	1079.3	1083.8	1124.9	1157.0	1180.9	1218.2	1221.2	1213.0
30°	909.8	918.0	952.3	973.3	997.2	1027.0	1073.3	1114.4	1148.0	1178.7	1189.1
32.5°	768.6	802.2	822.4	847.8	868.7	921.7	978.5	1031.5	1070.4	1121.9	1144.3
35°	639.4	665.5	699.9	710.3	748.4	793.2	867.2	935.2	994.2	1046.5	1092.0
37.5°	532.6	553.5	590.1	606.5	628.9	686.4	748.4	832.8	903.8	968.0	1024.8
40°	459.4	475.0	502.7	507.9	526.6	578.9	628.9	708.1	802.2	888.9	950.8
42.5°	409.3	416.8	435.5	442.2	454.1	489.2	534.1	608.8	696.1	785.8	873.2
45°	373.5	378.7	389.9	395.9	410.8	426.5	463.1	522.9	591.6	682.0	776.1
47.5°	341.3	348.1	352.6	356.3	364.5	381.7	405.6	449.7	515.4	598.3	689.4
50°	314.5	316.7	324.9	325.7	330.9	342.1	364.5	391.4	443.7	510.9	599.0
52.5°	287.6	289.8	295.0	300.3	302.5	311.5	326.4	348.8	387.7	440.7	519.1
55°	260.7	263.7	268.9	272.6	274.9	282.3	291.3	313.0	343.6	380.9	445.2
57.5°	233.8	240.5	242.0	244.2	248.0	256.2	264.4	277.1	301.0	335.4	382.4
60°	208.4	210.6	215.9	218.1	221.8	226.3	236.8	246.5	263.7	290.6	333.1
62.5°	182.3	187.5	189.7	192.0	194.9	200.2	206.9	217.4	232.3	254.0	287.6
65°	159.8	160.6	165.1	168.1	171.0	174.8	181.5	191.2	200.2	220.3	245.0
67.5°	138.2	139.7	141.2	144.2	147.9	151.6	157.6	162.8	174.0	187.5	206.9
70°	117.3	117.3	121.0	123.2	122.5	127.0	131.5	137.4	145.7	158.3	174.0
72.5°	98.6	97.8	100.8	101.6	103.1	106.1	109.1	115.0	119.5	129.2	141.2
75°	78.4	79.9	81.4	81.4	83.7	85.9	88.9	91.9	97.1	103.1	112.0
77.5°	62.0	62.0	63.5	64.2	66.5	65.7	68.7	71.7	75.4	80.7	87.4
80°	45.6	47.1	47.1	47.1	47.8	48.6	51.5	53.8	56.0	59.8	62.7
82.5°	32.1	32.1	33.6	33.6	33.6	35.1	35.1	35.9	37.3	39.6	41.8
85°	20.2	20.2	20.2	20.9	20.2	20.9	22.4	21.7	22.4	23.9	23.9
87.5°	9.7	9.7	9.7	9.7	9.7	10.5	9.7	10.5	11.2	11.2	11.2
90°	12.0	11.9	11.8	11.8	11.9	12.0	12.2	12.3	12.5	10.7	9.0
92.5°	11.4	11.4	11.4	11.4	11.4	11.3	11.2	11.2	11.1	11.0	10.9
95°	22.4	22.6	22.7	22.8	22.8	22.8	22.8	22.8	22.8	22.6	22.5
97.5°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.4	35.1
100°	49.1	49.2	49.3	49.3	49.3	49.3	49.3	49.3	49.3	49.1	48.8
102.5°	64.1	64.2	64.3	64.3	64.3	64.2	64.1	64.0	63.9	63.6	63.3
105°	79.3	79.3	79.3	79.3	79.2	79.0	78.9	78.7	78.5	78.3	78.2
107.5°	94.0	94.4	94.8	95.0	95.0	94.9	94.8	94.7	94.6	94.6	94.6
110°	110.4	110.7	110.9	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	126.3	126.5	126.6	126.7	126.8	127.1	127.3	127.6	127.8	127.9	128.0
115°	143.3	143.5	143.8	143.9	143.9	144.0	144.1	144.1	144.2	144.4	144.5
117.5°	159.0	159.2	159.5	159.6	159.7	160.0	160.2	160.5	160.7	161.1	161.5
120°	175.8	176.0	176.3	176.4	176.4	176.4	176.4	176.4	176.4	177.0	177.6
122.5°	192.0	192.2	192.3	192.4	192.5	192.8	193.0	193.3	193.5	193.9	194.3
125°	208.7	208.8	208.9	208.9	209.0	209.2	209.5	209.7	209.9	210.1	210.4
127.5°	224.0	224.2	224.5	224.6	224.8	225.1	225.4	225.7	226.0	226.3	226.6
130°	240.5	240.8	241.1	241.3	241.4	241.6	241.7	241.9	242.1	242.3	242.4
132.5°	256.1	256.3	256.6	256.7	256.9	257.3	257.7	258.1	258.5	258.4	258.3
135°	272.5	272.7	273.0	273.1	273.1	273.2	273.3	273.4	273.5	273.3	273.2
137.5°	287.3	287.6	287.9	288.1	288.1	288.2	288.3	288.4	288.5	288.3	288.2
140°	302.7	303.0	303.3	303.5	303.5	303.5	303.5	303.5	303.5	303.1	302.7
142.5°	316.6	316.9	317.2	317.4	317.4	317.3	317.2	317.1	317.0	316.8	316.6
145°	330.5	330.8	331.1	331.3	331.3	331.2	331.1	331.1	331.0	330.5	330.0
147.5°	343.0	343.3	343.6	343.8	343.7	343.6	343.4	343.3	343.1	342.8	342.5
150°	355.0	355.2	355.5	355.6	355.5	355.2	355.0	354.7	354.5	354.2	353.9
152.5°	366.6	366.9	367.2	367.4	367.2	366.9	366.6	366.2	365.9	365.5	365.1
155°	376.4	376.6	376.9	377.0	376.8	376.4	376.0	375.6	375.2	375.0	374.7
157.5°	385.7	386.0	386.4	386.6	386.3	385.8	385.2	384.7	384.1	383.9	383.8
160°	393.7	394.0	394.3	394.5	394.3	393.8	393.3	392.9	392.4	392.3	392.2
162.5°	401.0	401.4	401.8	402.0	401.7	401.2	400.6	400.1	399.5	399.4	399.3
165°	407.1	407.5	407.9	408.1	407.8	407.3	406.7	406.2	405.6	405.6	405.6
167.5°	412.4	412.8	413.2	413.4	413.1	412.6	412.0	411.5	410.9	410.9	410.9
170°	416.5	417.0	417.5	417.7	417.4	416.9	416.3	415.8	415.2	415.3	415.4
172.5°	419.7	420.2	420.7	420.9	420.6	420.1	419.5	419.0	418.4	418.5	418.6
175°	421.9	422.4	422.9	423.1	422.8	422.3	421.7	421.2	420.6	420.8	420.9
177.5°	422.9	423.4	423.9	424.1	423.9	423.4	422.9	422.5	422.0	422.2	422.3
180°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	997.2	993.4	991.2	992.7	988.2	977.0	977.0	980.7	976.2	971.8	965.0
5°	1024.8	1017.3	1012.8	1012.1	1001.6	983.7	980.0	976.2	966.5	956.1	944.9
7.5°	1051.7	1038.2	1030.8	1025.5	1010.6	987.4	977.7	969.5	953.8	938.1	924.0
10°	1074.1	1054.7	1045.7	1037.5	1018.1	988.9	973.3	958.3	938.1	918.0	900.1
12.5°	1092.0	1069.6	1058.4	1046.5	1022.6	984.5	965.0	941.1	921.0	894.1	876.2
15°	1121.9	1075.6	1065.1	1053.9	1029.3	977.0	953.1	926.2	898.6	862.7	843.3
17.5°	1145.8	1083.8	1083.1	1059.2	1027.0	974.0	937.4	902.3	872.4	836.6	805.9
20°	1160.0	1096.5	1084.5	1059.9	1019.6	953.8	915.7	876.9	844.8	801.5	770.8
22.5°	1171.9	1114.4	1083.1	1053.2	1003.9	947.1	891.1	854.5	810.4	763.4	734.2
25°	1176.4	1118.2	1085.3	1050.9	992.7	927.7	864.2	824.6	775.3	732.7	693.2
27.5°	1177.2	1117.4	1077.1	1041.2	977.0	902.3	837.3	795.5	741.0	691.7	652.1
30°	1169.7	1109.2	1072.6	1033.8	962.1	879.1	804.4	758.1	699.9	650.6	609.5
32.5°	1147.3	1092.8	1062.9	1020.3	942.6	847.0	773.1	721.5	660.3	611.7	572.2
35°	1109.9	1072.6	1039.7	1000.1	917.2	817.1	741.7	681.2	619.2	572.9	535.6
37.5°	1063.6	1043.5	1012.8	974.0	888.1	790.3	706.6	639.4	577.4	532.6	496.0
40°	1000.9	1006.1	976.2	941.1	853.7	753.7	661.0	596.8	538.5	496.7	460.9
42.5°	932.9	954.6	937.4	903.8	815.7	713.3	627.4	556.5	499.7	456.4	426.5
45°	859.7	897.1	886.6	862.0	776.1	670.7	579.6	510.9	460.9	419.0	392.9
47.5°	779.8	832.8	832.8	814.9	732.0	628.2	538.5	468.3	419.0	389.2	363.8
50°	698.4	758.1	767.8	755.9	682.7	579.6	488.5	425.0	382.4	353.3	334.6
52.5°	613.2	682.7	700.6	694.6	630.4	533.3	447.4	385.4	346.6	321.2	304.7
55°	531.8	612.5	631.9	634.1	574.4	482.5	401.9	347.3	310.0	292.8	278.6
57.5°	454.9	532.6	554.2	558.0	517.6	436.2	359.3	311.5	277.9	263.7	252.5
60°	389.2	454.1	482.5	490.7	455.6	382.4	319.7	273.4	248.0	234.5	224.1
62.5°	335.4	387.7	417.5	419.8	404.1	335.4	278.6	239.8	218.1	206.2	200.9
65°	283.1	330.1	348.1	357.0	344.3	290.6	240.5	208.4	191.2	180.8	175.5
67.5°	241.3	271.1	286.1	298.0	285.3	245.0	204.7	178.5	165.8	155.4	152.4
70°	197.9	222.6	233.8	245.7	234.5	203.9	174.8	150.9	139.7	131.5	127.7
72.5°	158.3	177.8	188.2	195.7	189.0	163.6	139.7	123.2	115.0	109.1	106.8
75°	125.5	138.9	144.9	150.1	147.1	127.7	112.8	99.3	91.9	86.6	85.2
77.5°	95.6	105.3	112.0	113.5	109.8	97.1	84.4	76.2	70.2	67.2	65.7
80°	68.0	73.9	77.7	79.9	76.2	71.0	62.0	56.0	50.8	47.1	46.3
82.5°	45.6	48.6	51.5	50.8	49.3	44.8	39.6	36.6	34.4	31.4	31.4
85°	26.1	26.9	28.4	29.1	28.4	25.4	22.4	20.9	19.4	17.2	17.2
87.5°	11.2	12.0	12.0	12.7	11.2	11.2	9.7	8.2	8.2	7.5	6.7
90°	7.2	5.5	4.6	4.1	3.2	2.3	1.3	0.4	1.3	2.3	3.2
92.5°	10.8	10.7	10.7	10.4	9.8	9.1	8.5	7.9	8.5	9.1	9.8
95°	22.3	22.2	22.1	21.7	20.9	20.2	19.4	18.6	19.4	20.2	20.9
97.5°	34.8	34.5	34.3	33.9	33.2	32.5	31.8	31.1	31.8	32.5	33.2
100°	48.6	48.3	48.2	47.9	47.2	46.6	45.9	45.3	45.9	46.6	47.2
102.5°	63.0	62.7	62.5	62.3	61.8	61.3	60.8	60.3	60.8	61.3	61.8
105°	78.0	77.9	77.8	77.7	77.5	77.2	77.0	76.8	77.0	77.2	77.5
107.5°	94.6	94.6	94.6	94.4	94.1	93.8	93.5	93.2	93.5	93.8	94.1
110°	111.0	111.0	111.0	110.8	110.3	109.8	109.4	108.9	109.4	109.8	110.3

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	128.1	128.2	128.2	128.0	127.5	127.0	126.5	126.0	126.5	127.0	127.5
115°	144.7	144.8	144.9	144.7	144.2	143.7	143.3	142.8	143.3	143.7	144.2
117.5°	161.8	162.2	162.4	162.1	161.5	160.8	160.2	159.6	160.2	160.8	161.5
120°	178.3	178.9	179.2	178.9	178.3	177.6	177.0	176.4	177.0	177.6	178.3
122.5°	194.7	195.1	195.3	194.9	194.1	193.3	192.5	191.7	192.5	193.3	194.1
125°	210.6	210.9	211.0	210.6	209.9	209.2	208.5	207.8	208.5	209.2	209.9
127.5°	226.9	227.2	227.4	227.0	226.1	225.2	224.4	223.5	224.4	225.2	226.1
130°	242.6	242.7	242.8	242.3	241.2	240.2	239.1	238.1	239.1	240.2	241.2
132.5°	258.2	258.1	258.1	257.7	256.9	256.2	255.4	254.6	255.4	256.2	256.9
135°	273.0	272.9	272.8	272.4	271.5	270.6	269.7	268.8	269.7	270.6	271.5
137.5°	288.0	287.9	287.8	287.4	286.7	286.0	285.2	284.5	285.2	286.0	286.7
140°	302.3	301.9	301.7	301.3	300.6	299.9	299.2	298.5	299.2	299.9	300.6
142.5°	316.3	316.1	316.0	315.6	314.9	314.2	313.4	312.7	313.4	314.2	314.9
145°	329.5	329.0	328.8	328.5	328.0	327.4	326.9	326.3	326.9	327.4	328.0
147.5°	342.2	341.9	341.7	341.3	340.6	339.9	339.1	338.4	339.1	339.9	340.6
150°	353.6	353.3	353.1	352.9	352.4	351.9	351.4	350.9	351.4	351.9	352.4
152.5°	364.8	364.4	364.2	364.0	363.5	363.0	362.5	362.0	362.5	363.0	363.5
155°	374.5	374.2	374.1	374.0	373.8	373.5	373.3	373.1	373.3	373.5	373.8
157.5°	383.6	383.5	383.4	383.3	383.2	383.0	382.9	382.7	382.9	383.0	383.2
160°	392.1	392.0	392.0	391.9	391.8	391.6	391.5	391.3	391.5	391.6	391.8
162.5°	399.2	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1	399.1
165°	405.6	405.6	405.6	405.6	405.7	405.8	405.8	405.9	405.8	405.8	405.7
167.5°	410.9	410.9	410.9	411.0	411.3	411.5	411.8	412.0	411.8	411.5	411.3
170°	415.5	415.6	415.6	415.7	415.9	416.2	416.4	416.6	416.4	416.2	415.9
172.5°	418.7	418.8	418.8	418.9	419.1	419.4	419.6	419.8	419.6	419.4	419.1
175°	421.1	421.2	421.3	421.4	421.6	421.9	422.1	422.3	422.1	421.9	421.6
177.5°	422.5	422.6	422.7	422.8	423.1	423.3	423.6	423.8	423.6	423.3	423.1
180°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	961.3	965.0	964.3	956.8	948.6	941.9	929.2	930.7	926.2	926.9	931.4
5°	937.4	937.4	934.4	924.0	910.5	903.0	888.9	885.1	876.2	875.4	874.7
7.5°	912.0	908.3	904.5	889.6	873.2	861.2	841.8	837.3	828.3	822.4	819.4
10°	882.1	876.9	869.4	852.3	832.1	817.1	797.0	791.0	773.8	766.4	761.9
12.5°	849.3	846.3	834.3	820.1	787.3	770.8	741.7	747.7	730.5	715.6	713.3
15°	816.4	805.2	798.5	775.3	735.7	728.3	705.1	693.2	677.5	665.5	665.5
17.5°	784.3	767.1	752.2	727.5	698.4	677.5	660.3	654.3	634.9	622.9	620.7
20°	741.7	722.3	718.6	683.4	663.3	640.1	623.7	608.8	594.6	589.3	585.6
22.5°	701.4	679.0	673.0	643.1	622.9	599.8	583.4	572.9	562.4	558.7	552.0
25°	658.0	644.6	635.6	603.5	581.1	559.5	548.2	540.8	531.1	530.3	525.8
27.5°	616.2	603.5	594.6	563.9	547.5	527.3	518.4	510.2	504.9	502.7	500.4
30°	580.4	566.2	555.7	533.3	513.1	496.7	489.2	484.0	481.0	477.3	476.5
32.5°	540.8	532.6	518.4	501.2	485.5	469.8	465.3	461.6	457.1	455.6	454.9
35°	507.2	496.0	487.0	467.6	460.9	447.4	442.2	439.2	433.2	431.7	430.2
37.5°	474.3	463.8	454.1	442.2	429.5	422.0	419.0	414.5	411.6	412.3	410.8
40°	441.4	433.2	425.8	413.1	405.6	401.9	395.9	391.4	389.9	390.6	389.9
42.5°	409.3	401.9	397.4	387.7	380.2	376.5	372.7	368.2	370.5	370.5	372.7
45°	380.2	373.5	370.5	363.0	358.5	352.6	348.8	348.1	351.1	350.3	350.3
47.5°	350.3	348.1	344.3	337.6	331.6	327.9	327.2	327.2	330.1	331.6	330.9
50°	327.2	322.7	318.2	313.0	308.5	307.0	304.7	306.2	309.2	309.2	310.7
52.5°	298.0	295.0	293.5	289.1	286.1	286.1	286.1	286.8	289.1	291.3	290.6
55°	272.6	270.4	268.9	266.7	262.9	263.7	262.9	264.4	266.7	268.9	270.4
57.5°	245.7	245.0	243.5	239.8	239.8	239.0	241.3	242.0	245.7	247.2	249.5
60°	221.8	219.6	219.6	216.6	216.6	216.6	218.9	221.1	224.1	224.8	226.3
62.5°	196.4	196.4	195.7	193.5	193.5	195.7	196.4	199.4	200.9	200.9	203.2
65°	172.5	171.8	171.0	171.8	172.5	172.5	174.8	176.3	177.8	178.5	179.3
67.5°	148.6	147.9	149.4	148.6	150.1	153.1	152.4	154.6	156.9	156.9	157.6
70°	126.2	127.7	127.0	128.5	127.7	129.2	131.5	132.2	132.2	133.0	135.2
72.5°	105.3	105.3	105.3	104.6	105.3	106.8	108.3	109.1	110.5	111.3	113.5
75°	85.2	85.2	83.7	85.2	85.2	86.6	88.1	88.1	88.1	89.6	91.9
77.5°	64.2	65.0	64.2	65.7	65.7	66.5	68.0	67.2	68.7	69.5	70.2
80°	47.1	46.3	46.3	46.3	47.1	47.1	48.6	49.3	49.3	51.5	50.0
82.5°	29.9	30.6	29.9	30.6	30.6	31.4	30.6	31.4	32.1	33.6	32.9
85°	17.2	16.4	16.4	17.2	16.4	16.4	17.2	16.4	17.2	16.4	17.2
87.5°	6.7	6.0	6.0	6.0	6.0	5.2	5.2	4.5	4.5	4.5	3.7
90°	4.1	4.6	5.5	7.2	9.0	10.7	12.5	12.3	12.2	12.0	11.9
92.5°	10.4	10.7	10.7	10.8	10.9	11.0	11.1	11.2	11.2	11.3	11.4
95°	21.7	22.1	22.2	22.3	22.5	22.6	22.8	22.8	22.8	22.8	22.8
97.5°	33.9	34.3	34.5	34.8	35.1	35.4	35.7	35.7	35.7	35.7	35.7
100°	47.9	48.2	48.3	48.6	48.8	49.1	49.3	49.3	49.3	49.3	49.3
102.5°	62.3	62.5	62.7	63.0	63.3	63.6	63.9	64.0	64.1	64.2	64.3
105°	77.7	77.8	77.9	78.0	78.2	78.3	78.5	78.7	78.9	79.0	79.2
107.5°	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.7	94.8	94.9	95.0
110°	110.8	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	128.0	128.2	128.2	128.1	128.0	127.9	127.8	127.6	127.3	127.1	126.8
115°	144.7	144.9	144.8	144.7	144.5	144.4	144.2	144.1	144.1	144.0	143.9
117.5°	162.1	162.4	162.2	161.8	161.5	161.1	160.7	160.5	160.2	160.0	159.7
120°	178.9	179.2	178.9	178.3	177.6	177.0	176.4	176.4	176.4	176.4	176.4
122.5°	194.9	195.3	195.1	194.7	194.3	193.9	193.5	193.3	193.0	192.8	192.5
125°	210.6	211.0	210.9	210.6	210.4	210.1	209.9	209.7	209.5	209.2	209.0
127.5°	227.0	227.4	227.2	226.9	226.6	226.3	226.0	225.7	225.4	225.1	224.8
130°	242.3	242.8	242.7	242.6	242.4	242.3	242.1	241.9	241.7	241.6	241.4
132.5°	257.7	258.1	258.1	258.2	258.3	258.4	258.5	258.1	257.7	257.3	256.9
135°	272.4	272.8	272.9	273.0	273.2	273.3	273.5	273.4	273.3	273.2	273.1
137.5°	287.4	287.8	287.9	288.0	288.2	288.3	288.5	288.4	288.3	288.2	288.1
140°	301.3	301.7	301.9	302.3	302.7	303.1	303.5	303.5	303.5	303.5	303.5
142.5°	315.6	316.0	316.1	316.3	316.6	316.8	317.0	317.1	317.2	317.3	317.4
145°	328.5	328.8	329.0	329.5	330.0	330.5	331.0	331.1	331.1	331.2	331.3
147.5°	341.3	341.7	341.9	342.2	342.5	342.8	343.1	343.3	343.4	343.6	343.7
150°	352.9	353.1	353.3	353.6	353.9	354.2	354.5	354.7	355.0	355.2	355.5
152.5°	364.0	364.2	364.4	364.8	365.1	365.5	365.9	366.2	366.6	366.9	367.2
155°	374.0	374.1	374.2	374.5	374.7	375.0	375.2	375.6	376.0	376.4	376.8
157.5°	383.3	383.4	383.5	383.6	383.8	383.9	384.1	384.7	385.2	385.8	386.3
160°	391.9	392.0	392.0	392.1	392.2	392.3	392.4	392.9	393.3	393.8	394.3
162.5°	399.1	399.1	399.1	399.2	399.3	399.4	399.5	400.1	400.6	401.2	401.7
165°	405.6	405.6	405.6	405.6	405.6	405.6	405.6	406.2	406.7	407.3	407.8
167.5°	411.0	410.9	410.9	410.9	410.9	410.9	410.9	411.5	412.0	412.6	413.1
170°	415.7	415.6	415.6	415.5	415.4	415.3	415.2	415.8	416.3	416.9	417.4
172.5°	418.9	418.8	418.8	418.7	418.6	418.5	418.4	419.0	419.5	420.1	420.6
175°	421.4	421.3	421.2	421.1	420.9	420.8	420.6	421.2	421.7	422.3	422.8
177.5°	422.8	422.7	422.6	422.5	422.3	422.2	422.0	422.5	422.9	423.4	423.9
180°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	926.2	928.4	923.2	921.7	923.2	918.0	919.5	921.0	921.0	923.2	924.7
5°	872.4	869.4	864.2	862.7	861.2	863.5	862.0	864.2	864.9	870.2	870.9
7.5°	819.4	814.9	810.4	805.9	804.4	800.7	804.4	804.4	809.7	808.2	811.9
10°	756.6	755.9	749.9	747.7	744.7	738.7	746.9	744.7	748.4	755.1	756.6
12.5°	710.3	702.1	705.9	695.4	699.1	693.2	693.9	693.9	699.9	700.6	699.1
15°	666.3	659.5	649.8	645.4	643.1	640.1	649.8	650.6	646.1	656.6	652.8
17.5°	621.4	621.4	612.5	610.2	604.3	607.3	605.8	606.5	605.0	612.5	616.2
20°	582.6	578.9	575.9	576.6	569.2	567.7	566.2	567.7	572.9	578.1	579.6
22.5°	551.2	549.0	541.5	543.0	537.0	539.3	537.8	541.5	542.3	542.3	547.5
25°	521.4	518.4	519.1	516.1	513.9	513.9	511.6	513.9	516.9	518.4	519.1
27.5°	499.0	496.7	493.0	490.7	492.2	488.5	491.5	493.7	493.7	492.2	493.7
30°	472.1	473.6	473.6	466.1	469.1	467.6	469.8	471.3	471.3	472.1	470.6
32.5°	454.1	449.7	448.9	448.2	448.2	445.2	445.2	447.4	448.2	448.9	451.1
35°	430.2	430.2	426.5	428.7	425.8	426.5	425.8	426.5	428.0	425.8	428.0
37.5°	408.6	409.3	407.8	409.3	410.1	408.6	407.1	410.1	408.6	408.6	407.1
40°	389.9	389.2	389.9	389.9	389.9	390.6	389.2	389.2	389.2	387.7	386.2
42.5°	374.2	369.7	371.2	372.0	369.7	369.7	370.5	369.7	372.0	367.5	367.5
45°	351.8	350.3	351.1	351.1	352.6	350.3	351.8	352.6	350.3	349.6	348.1
47.5°	331.6	333.1	331.6	333.1	333.1	334.6	331.6	332.4	333.1	330.1	327.9
50°	311.5	311.5	313.7	313.0	313.7	312.2	312.2	311.5	312.2	310.7	308.5
52.5°	292.8	290.6	294.3	293.5	292.8	292.1	291.3	292.1	290.6	289.1	289.1
55°	269.6	269.6	271.9	272.6	272.6	271.1	269.6	270.4	269.6	268.9	268.1
57.5°	251.0	248.0	249.5	250.2	250.2	248.0	249.5	248.0	248.0	248.7	246.5
60°	227.1	227.1	225.6	227.8	227.8	226.3	226.3	227.1	225.6	224.8	224.1
62.5°	201.7	202.4	204.7	205.4	206.2	204.7	203.2	203.9	203.9	201.7	202.4
65°	180.0	181.5	184.5	183.7	182.3	183.0	181.5	182.3	180.0	180.8	178.5
67.5°	159.1	158.3	159.1	159.1	160.6	159.8	158.3	158.3	157.6	159.8	157.6
70°	136.7	136.7	136.7	136.7	137.4	138.2	136.7	135.2	135.9	134.4	133.7
72.5°	113.5	114.3	113.5	115.0	112.8	114.3	114.3	113.5	112.8	112.8	112.8
75°	91.9	93.4	91.1	91.9	91.1	92.6	91.9	91.9	90.4	89.6	90.4
77.5°	70.2	71.0	69.5	70.2	69.5	70.2	70.2	69.5	69.5	69.5	69.5
80°	50.0	50.8	50.0	49.3	48.6	50.0	48.6	49.3	50.0	49.3	50.8
82.5°	32.1	32.1	31.4	32.1	30.6	30.6	31.4	31.4	30.6	32.1	30.6
85°	15.7	15.7	17.2	15.7	14.9	14.9	14.9	15.7	14.9	16.4	15.7
87.5°	3.7	3.0	3.7	3.7	3.0	3.0	3.7	3.0	3.7	4.5	3.0
90°	11.8	11.8	11.9	12.0	12.0	12.1	12.0	12.0	11.9	11.8	11.8
92.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
95°	22.8	22.7	22.6	22.4	22.3	22.1	22.3	22.4	22.6	22.7	22.8
97.5°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
100°	49.3	49.3	49.2	49.1	49.0	48.9	49.0	49.1	49.2	49.3	49.3
102.5°	64.3	64.3	64.2	64.1	64.0	63.9	64.0	64.1	64.2	64.3	64.3
105°	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
107.5°	95.0	94.8	94.4	94.0	93.6	93.2	93.6	94.0	94.4	94.8	95.0
110°	111.0	110.9	110.7	110.4	110.2	110.0	110.2	110.4	110.7	110.9	111.0

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	126.7	126.6	126.5	126.3	126.2	126.0	126.2	126.3	126.5	126.6	126.7
115°	143.9	143.8	143.5	143.3	143.0	142.8	143.0	143.3	143.5	143.8	143.9
117.5°	159.6	159.5	159.2	159.0	158.7	158.5	158.7	159.0	159.2	159.5	159.6
120°	176.4	176.3	176.0	175.8	175.5	175.3	175.5	175.8	176.0	176.3	176.4
122.5°	192.4	192.3	192.2	192.0	191.9	191.7	191.9	192.0	192.2	192.3	192.4
125°	208.9	208.9	208.8	208.7	208.6	208.5	208.6	208.7	208.8	208.9	208.9
127.5°	224.6	224.5	224.2	224.0	223.7	223.5	223.7	224.0	224.2	224.5	224.6
130°	241.3	241.1	240.8	240.5	240.2	239.9	240.2	240.5	240.8	241.1	241.3
132.5°	256.7	256.6	256.3	256.1	255.8	255.6	255.8	256.1	256.3	256.6	256.7
135°	273.1	273.0	272.7	272.5	272.2	272.0	272.2	272.5	272.7	273.0	273.1
137.5°	288.1	287.9	287.6	287.3	287.0	286.7	287.0	287.3	287.6	287.9	288.1
140°	303.5	303.3	303.0	302.7	302.3	302.0	302.3	302.7	303.0	303.3	303.5
142.5°	317.4	317.2	316.9	316.6	316.3	316.0	316.3	316.6	316.9	317.2	317.4
145°	331.3	331.1	330.8	330.5	330.2	329.9	330.2	330.5	330.8	331.1	331.3
147.5°	343.8	343.6	343.3	343.0	342.7	342.4	342.7	343.0	343.3	343.6	343.8
150°	355.6	355.5	355.2	355.0	354.7	354.5	354.7	355.0	355.2	355.5	355.6
152.5°	367.4	367.2	366.9	366.6	366.2	365.9	366.2	366.6	366.9	367.2	367.4
155°	377.0	376.9	376.6	376.4	376.1	375.9	376.1	376.4	376.6	376.9	377.0
157.5°	386.6	386.4	386.0	385.7	385.3	384.9	385.3	385.7	386.0	386.4	386.6
160°	394.5	394.3	394.0	393.7	393.4	393.1	393.4	393.7	394.0	394.3	394.5
162.5°	402.0	401.8	401.4	401.0	400.6	400.2	400.6	401.0	401.4	401.8	402.0
165°	408.1	407.9	407.5	407.1	406.7	406.3	406.7	407.1	407.5	407.9	408.1
167.5°	413.4	413.2	412.8	412.4	412.0	411.6	412.0	412.4	412.8	413.2	413.4
170°	417.7	417.5	417.0	416.5	416.1	415.6	416.1	416.5	417.0	417.5	417.7
172.5°	420.9	420.7	420.2	419.7	419.3	418.8	419.3	419.7	420.2	420.7	420.9
175°	423.1	422.9	422.4	421.9	421.4	420.9	421.4	421.9	422.4	422.9	423.1
177.5°	424.1	423.9	423.4	422.9	422.5	422.0	422.5	422.9	423.4	423.9	424.1
180°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8	971.8
2.5°	922.5	928.4	926.2	918.0	927.7	927.7	934.4	934.4	942.6	945.6	950.1
5°	870.2	874.7	878.4	874.7	881.4	891.8	897.8	903.0	914.2	918.7	925.5
7.5°	814.2	822.4	826.1	826.1	837.3	849.3	861.2	868.7	884.4	890.3	897.1
10°	759.6	769.3	776.8	776.1	794.7	802.2	817.1	834.3	850.0	859.0	868.7
12.5°	702.1	707.3	717.8	732.7	737.2	750.7	767.8	789.5	817.9	826.1	840.3
15°	654.3	668.5	676.7	683.4	693.9	706.6	725.3	746.2	774.6	792.5	807.4
17.5°	614.0	632.7	637.9	636.4	649.8	669.3	690.9	706.6	732.0	753.7	767.8
20°	581.1	588.6	597.5	601.3	611.7	632.7	653.6	671.5	692.4	709.6	726.0
22.5°	548.2	554.2	561.7	568.4	576.6	588.6	608.8	631.2	651.3	667.8	686.4
25°	521.4	525.1	531.8	537.0	546.0	554.2	568.4	593.1	617.0	626.7	643.1
27.5°	495.2	498.2	502.7	508.7	513.1	521.4	534.1	554.2	578.9	588.6	611.0
30°	472.1	474.3	478.8	481.8	484.0	493.7	503.4	519.1	537.8	551.2	567.7
32.5°	450.4	452.6	457.1	457.9	460.9	466.1	475.0	489.2	505.7	516.9	531.1
35°	426.5	428.0	432.5	434.0	436.2	440.7	447.4	457.9	472.8	481.0	493.7
37.5°	407.8	407.1	410.1	412.3	415.3	417.5	419.8	430.2	441.4	448.9	458.6
40°	387.7	386.2	386.9	389.9	391.4	394.4	394.4	404.8	412.3	418.3	425.8
42.5°	367.5	366.7	365.3	366.7	368.2	369.0	369.7	377.2	384.7	389.9	398.1
45°	347.3	346.6	345.1	345.8	345.8	347.3	349.6	352.6	357.8	362.3	366.7
47.5°	328.7	327.2	324.9	324.2	325.7	325.7	325.7	328.7	333.9	335.4	339.9
50°	309.2	307.0	304.0	302.5	302.5	301.8	303.3	304.0	308.5	310.0	313.7
52.5°	288.3	286.8	283.8	280.8	281.6	280.1	280.8	281.6	283.1	285.3	287.6
55°	267.4	264.4	262.2	261.4	259.2	259.2	256.9	259.9	259.2	259.9	262.9
57.5°	247.2	244.2	240.5	239.0	236.8	236.0	234.5	233.8	234.5	236.8	239.0
60°	223.3	221.8	219.6	217.4	215.9	213.6	212.1	212.1	211.4	211.4	212.1
62.5°	200.2	199.4	196.4	195.7	194.2	192.7	190.5	189.0	189.0	190.5	191.2
65°	177.8	177.0	174.8	174.0	170.3	168.8	168.1	167.3	165.8	165.8	165.8
67.5°	156.9	154.6	154.6	150.9	147.9	146.4	144.9	144.2	144.2	144.2	144.9
70°	133.7	133.7	131.5	129.2	126.2	127.0	124.7	122.5	122.5	121.0	121.8
72.5°	111.3	110.5	108.3	107.6	105.3	103.1	101.6	103.1	100.8	100.1	100.8
75°	89.6	88.9	87.4	85.9	86.6	84.4	82.2	81.4	81.4	79.9	79.9
77.5°	68.7	70.2	67.2	66.5	65.0	63.5	62.7	62.0	62.0	62.0	63.5
80°	47.8	48.6	48.6	47.1	47.8	45.6	45.6	45.6	43.3	44.1	44.8
82.5°	30.6	30.6	29.9	30.6	29.9	29.9	29.1	29.1	28.4	28.4	29.1
85°	17.2	16.4	15.7	17.2	16.4	16.4	15.7	15.7	15.7	15.7	15.7
87.5°	3.7	4.5	4.5	4.5	4.5	5.2	5.2	5.2	6.0	6.0	6.0
90°	11.9	12.0	12.2	12.3	12.5	10.7	9.0	7.2	5.5	4.6	4.1
92.5°	11.4	11.3	11.2	11.2	11.1	11.0	10.9	10.8	10.7	10.7	10.4
95°	22.8	22.8	22.8	22.8	22.8	22.6	22.5	22.3	22.2	22.1	21.7
97.5°	35.7	35.7	35.7	35.7	35.7	35.4	35.1	34.8	34.5	34.3	33.9
100°	49.3	49.3	49.3	49.3	49.3	49.1	48.8	48.6	48.3	48.2	47.9
102.5°	64.3	64.2	64.1	64.0	63.9	63.6	63.3	63.0	62.7	62.5	62.3
105°	79.2	79.0	78.9	78.7	78.5	78.3	78.2	78.0	77.9	77.8	77.7
107.5°	95.0	94.9	94.8	94.7	94.6	94.6	94.6	94.6	94.6	94.6	94.4
110°	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	111.0	110.8

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	126.8	127.1	127.3	127.6	127.8	127.9	128.0	128.1	128.2	128.2	128.0
115°	143.9	144.0	144.1	144.1	144.2	144.4	144.5	144.7	144.8	144.9	144.7
117.5°	159.7	160.0	160.2	160.5	160.7	161.1	161.5	161.8	162.2	162.4	162.1
120°	176.4	176.4	176.4	176.4	176.4	177.0	177.6	178.3	178.9	179.2	178.9
122.5°	192.5	192.8	193.0	193.3	193.5	193.9	194.3	194.7	195.1	195.3	194.9
125°	209.0	209.2	209.5	209.7	209.9	210.1	210.4	210.6	210.9	211.0	210.6
127.5°	224.8	225.1	225.4	225.7	226.0	226.3	226.6	226.9	227.2	227.4	227.0
130°	241.4	241.6	241.7	241.9	242.1	242.3	242.4	242.6	242.7	242.8	242.3
132.5°	256.9	257.3	257.7	258.1	258.5	258.4	258.3	258.2	258.1	258.1	257.7
135°	273.1	273.2	273.3	273.4	273.5	273.3	273.2	273.0	272.9	272.8	272.4
137.5°	288.1	288.2	288.3	288.4	288.5	288.3	288.2	288.0	287.9	287.8	287.4
140°	303.5	303.5	303.5	303.5	303.5	303.1	302.7	302.3	301.9	301.7	301.3
142.5°	317.4	317.3	317.2	317.1	317.0	316.8	316.6	316.3	316.1	316.0	315.6
145°	331.3	331.2	331.1	331.1	331.0	330.5	330.0	329.5	329.0	328.8	328.5
147.5°	343.7	343.6	343.4	343.3	343.1	342.8	342.5	342.2	341.9	341.7	341.3
150°	355.5	355.2	355.0	354.7	354.5	354.2	353.9	353.6	353.3	353.1	352.9
152.5°	367.2	366.9	366.6	366.2	365.9	365.5	365.1	364.8	364.4	364.2	364.0
155°	376.8	376.4	376.0	375.6	375.2	375.0	374.7	374.5	374.2	374.1	374.0
157.5°	386.3	385.8	385.2	384.7	384.1	383.9	383.8	383.6	383.5	383.4	383.3
160°	394.3	393.8	393.3	392.9	392.4	392.3	392.2	392.1	392.0	392.0	391.9
162.5°	401.7	401.2	400.6	400.1	399.5	399.4	399.3	399.2	399.1	399.1	399.1
165°	407.8	407.3	406.7	406.2	405.6	405.6	405.6	405.6	405.6	405.6	405.6
167.5°	413.1	412.6	412.0	411.5	410.9	410.9	410.9	410.9	410.9	410.9	411.0
170°	417.4	416.9	416.3	415.8	415.2	415.3	415.4	415.5	415.6	415.6	415.7
172.5°	420.6	420.1	419.5	419.0	418.4	418.5	418.6	418.7	418.8	418.8	418.9
175°	422.8	422.3	421.7	421.2	420.6	420.8	420.9	421.1	421.2	421.3	421.4
177.5°	423.9	423.4	422.9	422.5	422.0	422.2	422.3	422.5	422.6	422.7	422.8
180°	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1	423.1

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	971.8	971.8	971.8	971.8
2.5°	953.8	953.8	965.0	977.0
5°	932.9	938.1	956.1	972.5
7.5°	912.8	921.7	944.1	965.0
10°	888.1	900.1	927.7	952.3
12.5°	864.2	875.4	907.5	935.2
15°	830.6	844.8	879.1	913.5
17.5°	797.0	811.2	853.0	893.3
20°	757.4	776.1	823.1	876.9
22.5°	720.8	743.9	796.2	839.6
25°	680.5	716.3	764.9	820.9
27.5°	644.6	680.5	729.8	786.5
30°	604.3	640.9	691.7	743.9
32.5°	565.4	599.0	648.3	712.6
35°	525.1	557.2	605.0	670.0
37.5°	488.5	519.9	572.2	631.9
40°	452.6	485.5	530.3	590.1
42.5°	419.0	448.2	488.5	548.2
45°	388.4	409.3	446.7	502.7
47.5°	356.3	375.0	409.3	465.3
50°	326.4	342.1	372.0	424.3
52.5°	297.3	310.7	338.4	380.2
55°	271.1	283.8	304.0	345.1
57.5°	244.2	254.0	273.4	306.2
60°	218.1	227.1	242.8	269.6
62.5°	192.0	199.4	214.4	236.0
65°	168.8	174.8	186.0	204.7
67.5°	146.4	150.1	159.1	174.0
70°	124.7	127.7	135.2	147.1
72.5°	101.6	104.6	112.8	121.0
75°	82.2	82.9	88.9	95.6
77.5°	64.2	63.5	68.0	73.2
80°	44.1	46.3	50.0	52.3
82.5°	29.9	30.6	32.1	33.6
85°	16.4	17.2	17.2	19.4
87.5°	6.7	7.5	7.5	8.2
90°	3.2	2.3	1.3	0.4
92.5°	9.8	9.1	8.5	7.9
95°	20.9	20.2	19.4	18.6
97.5°	33.2	32.5	31.8	31.1
100°	47.2	46.6	45.9	45.3
102.5°	61.8	61.3	60.8	60.3
105°	77.5	77.2	77.0	76.8
107.5°	94.1	93.8	93.5	93.2
110°	110.3	109.8	109.4	108.9



TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	127.5	127.0	126.5	126.0
115°	144.2	143.7	143.3	142.8
117.5°	161.5	160.8	160.2	159.6
120°	178.3	177.6	177.0	176.4
122.5°	194.1	193.3	192.5	191.7
125°	209.9	209.2	208.5	207.8
127.5°	226.1	225.2	224.4	223.5
130°	241.2	240.2	239.1	238.1
132.5°	256.9	256.2	255.4	254.6
135°	271.5	270.6	269.7	268.8
137.5°	286.7	286.0	285.2	284.5
140°	300.6	299.9	299.2	298.5
142.5°	314.9	314.2	313.4	312.7
145°	328.0	327.4	326.9	326.3
147.5°	340.6	339.9	339.1	338.4
150°	352.4	351.9	351.4	350.9
152.5°	363.5	363.0	362.5	362.0
155°	373.8	373.5	373.3	373.1
157.5°	383.2	383.0	382.9	382.7
160°	391.8	391.6	391.5	391.3
162.5°	399.1	399.1	399.1	399.1
165°	405.7	405.8	405.8	405.9
167.5°	411.3	411.5	411.8	412.0
170°	415.9	416.2	416.4	416.6
172.5°	419.1	419.4	419.6	419.8
175°	421.6	421.9	422.1	422.3
177.5°	423.1	423.3	423.6	423.8
180°	423.1	423.1	423.1	423.1

TEST NUMBER: P998469

CATALOG NUMBER: SA2XXDIP-B485D330UB35-4F0-XX-W2A-A1

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	16.59	17.55	17.42	18.40	19.45	14.09	15.05	14.92	15.89	16.95
	3H	17.41	18.27	18.26	19.13	20.21	15.44	16.30	16.28	17.16	18.24
	4H	17.59	18.40	18.45	19.26	20.35	15.91	16.72	16.77	17.58	18.67
	6H	17.64	18.38	18.51	19.25	20.36	16.22	16.97	17.09	17.84	18.94
	8H	17.62	18.33	18.50	19.22	20.32	16.30	17.02	17.18	17.90	19.01
	12H	17.58	18.26	18.47	19.14	20.27	16.35	17.03	17.23	17.91	19.04
4H	2H	16.65	17.46	17.51	18.32	19.41	14.54	15.36	15.41	16.22	17.31
	3H	17.64	18.31	18.51	19.21	20.31	16.01	16.69	16.89	17.58	18.69
	4H	17.92	18.53	18.80	19.42	20.56	16.55	17.17	17.44	18.06	19.19
	6H	18.05	18.58	18.95	19.50	20.63	16.94	17.47	17.84	18.38	19.52
	8H	18.05	18.55	18.96	19.46	20.60	17.05	17.54	17.95	18.45	19.60
	12H	18.02	18.47	18.95	19.40	20.55	17.11	17.56	18.03	18.49	19.64
8H	4H	17.93	18.43	18.84	19.34	20.48	16.70	17.20	17.61	18.11	19.25
	6H	18.12	18.52	19.05	19.48	20.62	17.14	17.55	18.07	18.50	19.65
	8H	18.15	18.51	19.09	19.45	20.62	17.29	17.65	18.23	18.60	19.76
	12H	18.14	18.45	19.08	19.39	20.60	17.39	17.71	18.33	18.64	19.86
12H	4H	17.90	18.34	18.82	19.27	20.42	16.68	17.12	17.60	18.05	19.21
	6H	18.09	18.46	19.04	19.40	20.56	17.14	17.50	18.08	18.45	19.61
	8H	18.13	18.45	19.08	19.39	20.60	17.30	17.62	18.25	18.56	19.77