

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: P998506

Luminaire Tested: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998506
REPORT IS A COMBINATION OF REPORTS P984249 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

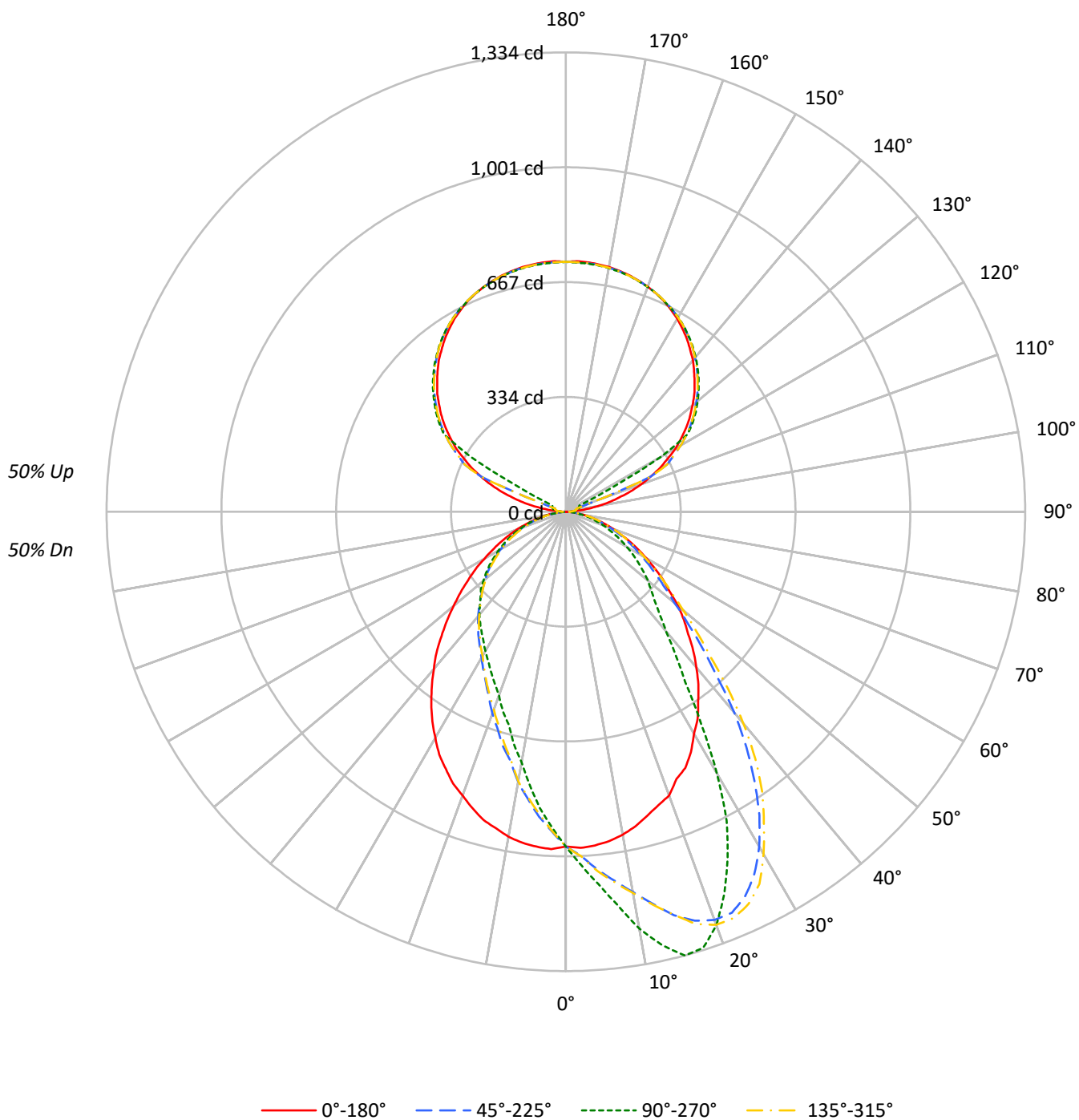
Lumens per Lamp: N/A
Luminaire Lumens: 4273.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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	83	83	83	69	69	69	56	56	56
1	98	94	90	87	91	87	84	81	74	72	70	62	60	59	51	49	49
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42
3	82	73	66	61	76	68	62	57	58	53	50	49	45	43	40	38	36
4	76	65	57	52	70	61	54	49	52	47	43	44	40	37	36	34	31
5	70	58	50	45	64	54	47	42	47	41	37	40	36	32	33	30	28
6	64	52	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25
7	60	48	40	34	55	44	37	33	38	33	29	33	29	26	28	24	22
8	55	43	36	31	51	40	34	29	35	30	26	30	26	23	26	22	20
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	20	18
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	17

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

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	2.2
10°-20°	269.4	6.3
20°-30°	391.0	9.2
30°-40°	412.2	9.6
40°-50°	364.7	8.5
50°-60°	291.2	6.8
60°-70°	197.8	4.6
70°-80°	101.2	2.4
80°-90°	25.2	0.6
90°-100°	23.9	0.6
100°-110°	89.2	2.1
110°-120°	236.6	5.5
120°-130°	392.4	9.2
130°-140°	416.8	9.8
140°-150°	387.4	9.1
150°-160°	311.5	7.3
160°-170°	200.7	4.7
170°-180°	69.1	1.6
0°-30°	752.9	17.6
0°-40°	1165.1	27.3
0°-60°	1821.1	42.6
0°-90°	2145.3	50.2
90°-120°	349.8	8.2
90°-150°	1546.5	36.2
90°-180°	2128.0	49.8
0°-180°	4273.0	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	14	0	14	0	3
95°	34	23	34	23	34	40
105°	160	40	160	40	160	171
115°	302	43	302	43	302	297
125°	427	449	427	449	427	381
135°	528	546	528	546	528	408
145°	613	622	613	622	613	383
155°	675	675	675	675	675	311
165°	711	710	711	710	711	201
175°	727	723	727	723	727	69
180°	726	726	726	726	726	

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CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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°	0.5	1.8	3.1	4.4	5.7	6.3	6.8	7.7	8.6	9.6	10.5
92.5°	13.1	12.6	12.2	11.7	11.2	11.0	11.2	11.5	11.9	12.2	12.6
95°	34.1	30.3	26.4	22.6	18.7	16.8	17.2	18.0	18.9	19.7	20.5
97.5°	61.4	51.8	42.3	32.7	23.2	18.4	19.3	21.2	23.1	24.9	26.8
100°	93.0	77.0	61.0	45.0	29.0	21.0	22.0	24.0	25.9	27.9	29.9
102.5°	127.6	127.4	127.2	126.9	126.7	126.6	116.0	94.7	73.5	52.2	31.0
105°	159.6	163.1	166.6	170.1	173.6	175.4	159.5	127.6	95.7	63.9	32.0
107.5°	196.9	199.8	202.8	205.7	208.6	210.1	190.4	151.1	111.8	72.4	33.1
110°	232.6	235.1	237.5	240.0	242.5	243.7	226.8	193.1	159.4	125.6	91.9

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	266.3	268.4	270.5	272.6	274.7	275.7	274.7	272.7	270.8	268.8	266.8
115°	302.0	304.0	306.0	307.9	309.9	310.9	312.4	315.3	318.2	321.1	324.0
117.5°	333.0	335.3	337.7	340.0	342.3	343.5	344.5	346.5	348.4	350.4	352.4
120°	367.6	369.4	371.1	372.9	374.6	375.5	376.5	378.6	380.7	382.8	384.9
122.5°	397.0	398.9	400.7	402.6	404.5	405.4	406.6	408.9	411.2	413.6	415.9
125°	427.0	428.5	430.0	431.5	433.0	433.8	434.9	437.1	439.4	441.6	443.8
127.5°	454.3	455.9	457.5	459.2	460.8	461.6	462.5	464.2	466.0	467.7	469.5
130°	480.0	481.9	483.7	485.6	487.5	488.4	489.0	490.3	491.6	492.9	494.2
132.5°	506.3	507.8	509.3	510.8	512.3	513.1	513.7	515.0	516.3	517.6	518.9
135°	528.3	530.2	532.0	533.9	535.8	536.7	537.2	538.3	539.3	540.4	541.4
137.5°	551.4	552.8	554.2	555.6	557.0	557.7	558.3	559.5	560.6	561.8	563.0
140°	574.0	574.9	575.9	576.8	577.7	578.2	578.8	580.1	581.4	582.7	584.0
142.5°	592.9	593.7	594.5	595.4	596.2	596.6	597.4	598.9	600.4	601.9	603.4
145°	612.9	612.8	612.6	612.5	612.4	612.3	613.3	615.3	617.3	619.3	621.3
147.5°	630.2	629.8	629.5	629.1	628.8	628.6	629.6	631.6	633.5	635.5	637.5
150°	647.0	646.2	645.4	644.5	643.7	643.3	644.2	646.1	648.0	649.8	651.7
152.5°	661.2	660.3	659.3	658.4	657.5	657.0	657.9	659.6	661.4	663.1	664.9
155°	674.8	673.8	672.7	671.7	670.6	670.1	670.8	672.2	673.6	675.0	676.4
157.5°	685.9	685.0	684.0	683.1	682.2	681.7	682.2	683.3	684.3	685.4	686.4
160°	695.3	694.6	693.9	693.2	692.5	692.2	692.5	693.2	693.9	694.6	695.3
162.5°	703.7	703.0	702.3	701.6	700.9	700.6	700.9	701.5	702.0	702.6	703.2
165°	711.1	710.4	709.7	709.0	708.3	707.9	708.1	708.4	708.8	709.1	709.5
167.5°	716.8	716.1	715.4	714.7	714.0	713.7	713.9	714.2	714.6	714.9	715.3
170°	721.6	720.9	720.2	719.5	718.8	718.4	718.5	718.8	719.0	719.3	719.5
172.5°	724.7	724.0	723.3	722.6	721.9	721.6	721.7	721.9	722.2	722.4	722.6
175°	727.4	726.6	725.8	724.9	724.1	723.7	723.8	724.0	724.3	724.5	724.7
177.5°	728.4	727.6	726.8	725.9	725.1	724.7	724.8	724.9	725.0	725.2	725.3
180°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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°	11.1	11.7	12.2	12.8	13.1	13.2	13.5	13.7	14.0	14.2	14.0
92.5°	12.8	13.1	13.3	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.1
95°	21.1	21.7	22.2	22.8	23.1	23.0	22.9	22.8	22.7	22.6	22.7
97.5°	27.2	27.5	27.9	28.2	28.4	28.5	28.6	28.7	28.8	28.9	28.8
100°	30.8	31.8	32.7	33.6	34.1	34.2	34.5	34.7	35.0	35.2	35.0
102.5°	32.3	33.6	34.9	36.2	36.8	37.0	37.3	37.6	38.0	38.3	38.0
105°	33.3	34.6	35.9	37.2	37.8	38.0	38.5	39.0	39.4	39.9	39.4
107.5°	34.4	35.7	37.0	38.3	38.9	39.1	39.6	40.1	40.5	41.0	40.5
110°	80.2	68.6	56.9	45.2	39.4	39.6	40.1	40.6	41.0	41.5	41.0

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	216.5	166.2	115.9	65.6	40.4	40.6	40.9	41.3	41.6	42.0	41.6
115°	270.0	216.0	161.9	107.9	80.9	76.7	68.3	59.9	51.5	43.1	51.5
117.5°	335.7	319.0	302.3	285.6	277.3	262.0	231.4	200.9	170.3	139.7	170.3
120°	386.3	387.7	389.1	390.5	391.2	383.3	367.6	351.9	336.1	320.4	336.1
122.5°	416.6	417.3	418.0	418.7	419.1	419.2	419.3	419.4	419.5	419.6	419.5
125°	444.6	445.4	446.2	447.0	447.4	447.6	447.9	448.3	448.6	449.0	448.6
127.5°	470.7	471.8	473.0	474.1	474.7	474.8	474.9	475.0	475.2	475.3	475.2
130°	495.5	496.8	498.1	499.4	500.0	499.9	499.8	499.7	499.5	499.4	499.5
132.5°	519.9	521.0	522.0	523.1	523.6	523.5	523.4	523.3	523.2	523.1	523.2
135°	542.6	543.8	544.9	546.1	546.7	546.6	546.3	546.1	545.8	545.6	545.8
137.5°	564.2	565.3	566.5	567.6	568.2	568.0	567.7	567.4	567.0	566.7	567.0
140°	585.0	586.1	587.1	588.2	588.7	588.4	587.8	587.3	586.7	586.1	586.7
142.5°	604.3	605.3	606.2	607.1	607.6	607.3	606.7	606.2	605.6	605.0	605.6
145°	622.1	622.9	623.7	624.5	624.9	624.6	624.0	623.5	622.9	622.3	622.9
147.5°	638.1	638.7	639.3	639.9	640.2	640.0	639.5	639.0	638.6	638.1	638.6
150°	652.4	653.1	653.8	654.5	654.9	654.6	654.0	653.5	652.9	652.3	652.9
152.5°	665.6	666.3	667.0	667.7	668.0	667.6	666.8	665.9	665.1	664.3	665.1
155°	677.1	677.8	678.5	679.2	679.6	679.1	678.2	677.3	676.3	675.4	676.3
157.5°	687.2	688.0	688.9	689.7	690.1	689.6	688.7	687.8	686.8	685.9	686.8
160°	696.0	696.7	697.4	698.1	698.5	698.1	697.3	696.4	695.6	694.8	695.6
162.5°	704.0	704.8	705.7	706.5	706.9	706.4	705.3	704.2	703.2	702.1	703.2
165°	710.3	711.1	712.0	712.8	713.2	712.8	712.0	711.1	710.3	709.5	710.3
167.5°	716.1	716.9	717.7	718.5	718.9	718.4	717.3	716.3	715.2	714.2	715.2
170°	720.3	721.1	722.0	722.8	723.2	722.7	721.6	720.5	719.5	718.4	719.5
172.5°	723.4	724.2	725.1	725.9	726.3	725.8	724.7	723.7	722.6	721.6	722.6
175°	725.5	726.3	727.2	728.0	728.4	727.8	726.7	725.5	724.4	723.2	724.4
177.5°	726.1	726.9	727.7	728.5	728.9	728.4	727.3	726.3	725.2	724.2	725.2
180°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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°	13.7	13.5	13.2	13.1	12.8	12.2	11.7	11.1	10.5	9.6	8.6
92.5°	14.0	13.9	13.8	13.7	13.6	13.3	13.1	12.8	12.6	12.2	11.9
95°	22.8	22.9	23.0	23.1	22.8	22.2	21.7	21.1	20.5	19.7	18.9
97.5°	28.7	28.6	28.5	28.4	28.2	27.9	27.5	27.2	26.8	24.9	23.1
100°	34.7	34.5	34.2	34.1	33.6	32.7	31.8	30.8	29.9	27.9	25.9
102.5°	37.6	37.3	37.0	36.8	36.2	34.9	33.6	32.3	31.0	52.2	73.5
105°	39.0	38.5	38.0	37.8	37.2	35.9	34.6	33.3	32.0	63.9	95.7
107.5°	40.1	39.6	39.1	38.9	38.3	37.0	35.7	34.4	33.1	72.4	111.8
110°	40.6	40.1	39.6	39.4	45.2	56.9	68.6	80.2	91.9	125.6	159.4

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	41.3	40.9	40.6	40.4	65.6	115.9	166.2	216.5	266.8	268.8	270.8
115°	59.9	68.3	76.7	80.9	107.9	161.9	216.0	270.0	324.0	321.1	318.2
117.5°	200.9	231.4	262.0	277.3	285.6	302.3	319.0	335.7	352.4	350.4	348.4
120°	351.9	367.6	383.3	391.2	390.5	389.1	387.7	386.3	384.9	382.8	380.7
122.5°	419.4	419.3	419.2	419.1	418.7	418.0	417.3	416.6	415.9	413.6	411.2
125°	448.3	447.9	447.6	447.4	447.0	446.2	445.4	444.6	443.8	441.6	439.4
127.5°	475.0	474.9	474.8	474.7	474.1	473.0	471.8	470.7	469.5	467.7	466.0
130°	499.7	499.8	499.9	500.0	499.4	498.1	496.8	495.5	494.2	492.9	491.6
132.5°	523.3	523.4	523.5	523.6	523.1	522.0	521.0	519.9	518.9	517.6	516.3
135°	546.1	546.3	546.6	546.7	546.1	544.9	543.8	542.6	541.4	540.4	539.3
137.5°	567.4	567.7	568.0	568.2	567.6	566.5	565.3	564.2	563.0	561.8	560.6
140°	587.3	587.8	588.4	588.7	588.2	587.1	586.1	585.0	584.0	582.7	581.4
142.5°	606.2	606.7	607.3	607.6	607.1	606.2	605.3	604.3	603.4	601.9	600.4
145°	623.5	624.0	624.6	624.9	624.5	623.7	622.9	622.1	621.3	619.3	617.3
147.5°	639.0	639.5	640.0	640.2	639.9	639.3	638.7	638.1	637.5	635.5	633.5
150°	653.5	654.0	654.6	654.9	654.5	653.8	653.1	652.4	651.7	649.8	648.0
152.5°	665.9	666.8	667.6	668.0	667.7	667.0	666.3	665.6	664.9	663.1	661.4
155°	677.3	678.2	679.1	679.6	679.2	678.5	677.8	677.1	676.4	675.0	673.6
157.5°	687.8	688.7	689.6	690.1	689.7	688.9	688.0	687.2	686.4	685.4	684.3
160°	696.4	697.3	698.1	698.5	698.1	697.4	696.7	696.0	695.3	694.6	693.9
162.5°	704.2	705.3	706.4	706.9	706.5	705.7	704.8	704.0	703.2	702.6	702.0
165°	711.1	712.0	712.8	713.2	712.8	712.0	711.1	710.3	709.5	709.1	708.8
167.5°	716.3	717.3	718.4	718.9	718.5	717.7	716.9	716.1	715.3	714.9	714.6
170°	720.5	721.6	722.7	723.2	722.8	722.0	721.1	720.3	719.5	719.3	719.0
172.5°	723.7	724.7	725.8	726.3	725.9	725.1	724.2	723.4	722.6	722.4	722.2
175°	725.5	726.7	727.8	728.4	728.0	727.2	726.3	725.5	724.7	724.5	724.3
177.5°	726.3	727.3	728.4	728.9	728.5	727.7	726.9	726.1	725.3	725.2	725.0
180°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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°	7.7	6.8	6.3	5.7	4.4	3.1	1.8	0.5	1.8	3.1	4.4
92.5°	11.5	11.2	11.0	11.2	11.7	12.2	12.6	13.1	12.6	12.2	11.7
95°	18.0	17.2	16.8	18.7	22.6	26.4	30.3	34.1	30.3	26.4	22.6
97.5°	21.2	19.3	18.4	23.2	32.7	42.3	51.8	61.4	51.8	42.3	32.7
100°	24.0	22.0	21.0	29.0	45.0	61.0	77.0	93.0	77.0	61.0	45.0
102.5°	94.7	116.0	126.6	126.7	126.9	127.2	127.4	127.6	127.4	127.2	126.9
105°	127.6	159.5	175.4	173.6	170.1	166.6	163.1	159.6	163.1	166.6	170.1
107.5°	151.1	190.4	210.1	208.6	205.7	202.8	199.8	196.9	199.8	202.8	205.7
110°	193.1	226.8	243.7	242.5	240.0	237.5	235.1	232.6	235.1	237.5	240.0

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	272.7	274.7	275.7	274.7	272.6	270.5	268.4	266.3	268.4	270.5	272.6
115°	315.3	312.4	310.9	309.9	307.9	306.0	304.0	302.0	304.0	306.0	307.9
117.5°	346.5	344.5	343.5	342.3	340.0	337.7	335.3	333.0	335.3	337.7	340.0
120°	378.6	376.5	375.5	374.6	372.9	371.1	369.4	367.6	369.4	371.1	372.9
122.5°	408.9	406.6	405.4	404.5	402.6	400.7	398.9	397.0	398.9	400.7	402.6
125°	437.1	434.9	433.8	433.0	431.5	430.0	428.5	427.0	428.5	430.0	431.5
127.5°	464.2	462.5	461.6	460.8	459.2	457.5	455.9	454.3	455.9	457.5	459.2
130°	490.3	489.0	488.4	487.5	485.6	483.7	481.9	480.0	481.9	483.7	485.6
132.5°	515.0	513.7	513.1	512.3	510.8	509.3	507.8	506.3	507.8	509.3	510.8
135°	538.3	537.2	536.7	535.8	533.9	532.0	530.2	528.3	530.2	532.0	533.9
137.5°	559.5	558.3	557.7	557.0	555.6	554.2	552.8	551.4	552.8	554.2	555.6
140°	580.1	578.8	578.2	577.7	576.8	575.9	574.9	574.0	574.9	575.9	576.8
142.5°	598.9	597.4	596.6	596.2	595.4	594.5	593.7	592.9	593.7	594.5	595.4
145°	615.3	613.3	612.3	612.4	612.5	612.6	612.8	612.9	612.8	612.6	612.5
147.5°	631.6	629.6	628.6	628.8	629.1	629.5	629.8	630.2	629.8	629.5	629.1
150°	646.1	644.2	643.3	643.7	644.5	645.4	646.2	647.0	646.2	645.4	644.5
152.5°	659.6	657.9	657.0	657.5	658.4	659.3	660.3	661.2	660.3	659.3	658.4
155°	672.2	670.8	670.1	670.6	671.7	672.7	673.8	674.8	673.8	672.7	671.7
157.5°	683.3	682.2	681.7	682.2	683.1	684.0	685.0	685.9	685.0	684.0	683.1
160°	693.2	692.5	692.2	692.5	693.2	693.9	694.6	695.3	694.6	693.9	693.2
162.5°	701.5	700.9	700.6	700.9	701.6	702.3	703.0	703.7	703.0	702.3	701.6
165°	708.4	708.1	707.9	708.3	709.0	709.7	710.4	711.1	710.4	709.7	709.0
167.5°	714.2	713.9	713.7	714.0	714.7	715.4	716.1	716.8	716.1	715.4	714.7
170°	718.8	718.5	718.4	718.8	719.5	720.2	720.9	721.6	720.9	720.2	719.5
172.5°	721.9	721.7	721.6	721.9	722.6	723.3	724.0	724.7	724.0	723.3	722.6
175°	724.0	723.8	723.7	724.1	724.9	725.8	726.6	727.4	726.6	725.8	724.9
177.5°	724.9	724.8	724.7	725.1	725.9	726.8	727.6	728.4	727.6	726.8	725.9
180°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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°	5.7	6.3	6.8	7.7	8.6	9.6	10.5	11.1	11.7	12.2	12.8
92.5°	11.2	11.0	11.2	11.5	11.9	12.2	12.6	12.8	13.1	13.3	13.6
95°	18.7	16.8	17.2	18.0	18.9	19.7	20.5	21.1	21.7	22.2	22.8
97.5°	23.2	18.4	19.3	21.2	23.1	24.9	26.8	27.2	27.5	27.9	28.2
100°	29.0	21.0	22.0	24.0	25.9	27.9	29.9	30.8	31.8	32.7	33.6
102.5°	126.7	126.6	116.0	94.7	73.5	52.2	31.0	32.3	33.6	34.9	36.2
105°	173.6	175.4	159.5	127.6	95.7	63.9	32.0	33.3	34.6	35.9	37.2
107.5°	208.6	210.1	190.4	151.1	111.8	72.4	33.1	34.4	35.7	37.0	38.3
110°	242.5	243.7	226.8	193.1	159.4	125.6	91.9	80.2	68.6	56.9	45.2

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	274.7	275.7	274.7	272.7	270.8	268.8	266.8	216.5	166.2	115.9	65.6
115°	309.9	310.9	312.4	315.3	318.2	321.1	324.0	270.0	216.0	161.9	107.9
117.5°	342.3	343.5	344.5	346.5	348.4	350.4	352.4	335.7	319.0	302.3	285.6
120°	374.6	375.5	376.5	378.6	380.7	382.8	384.9	386.3	387.7	389.1	390.5
122.5°	404.5	405.4	406.6	408.9	411.2	413.6	415.9	416.6	417.3	418.0	418.7
125°	433.0	433.8	434.9	437.1	439.4	441.6	443.8	444.6	445.4	446.2	447.0
127.5°	460.8	461.6	462.5	464.2	466.0	467.7	469.5	470.7	471.8	473.0	474.1
130°	487.5	488.4	489.0	490.3	491.6	492.9	494.2	495.5	496.8	498.1	499.4
132.5°	512.3	513.1	513.7	515.0	516.3	517.6	518.9	519.9	521.0	522.0	523.1
135°	535.8	536.7	537.2	538.3	539.3	540.4	541.4	542.6	543.8	544.9	546.1
137.5°	557.0	557.7	558.3	559.5	560.6	561.8	563.0	564.2	565.3	566.5	567.6
140°	577.7	578.2	578.8	580.1	581.4	582.7	584.0	585.0	586.1	587.1	588.2
142.5°	596.2	596.6	597.4	598.9	600.4	601.9	603.4	604.3	605.3	606.2	607.1
145°	612.4	612.3	613.3	615.3	617.3	619.3	621.3	622.1	622.9	623.7	624.5
147.5°	628.8	628.6	629.6	631.6	633.5	635.5	637.5	638.1	638.7	639.3	639.9
150°	643.7	643.3	644.2	646.1	648.0	649.8	651.7	652.4	653.1	653.8	654.5
152.5°	657.5	657.0	657.9	659.6	661.4	663.1	664.9	665.6	666.3	667.0	667.7
155°	670.6	670.1	670.8	672.2	673.6	675.0	676.4	677.1	677.8	678.5	679.2
157.5°	682.2	681.7	682.2	683.3	684.3	685.4	686.4	687.2	688.0	688.9	689.7
160°	692.5	692.2	692.5	693.2	693.9	694.6	695.3	696.0	696.7	697.4	698.1
162.5°	700.9	700.6	700.9	701.5	702.0	702.6	703.2	704.0	704.8	705.7	706.5
165°	708.3	707.9	708.1	708.4	708.8	709.1	709.5	710.3	711.1	712.0	712.8
167.5°	714.0	713.7	713.9	714.2	714.6	714.9	715.3	716.1	716.9	717.7	718.5
170°	718.8	718.4	718.5	718.8	719.0	719.3	719.5	720.3	721.1	722.0	722.8
172.5°	721.9	721.6	721.7	721.9	722.2	722.4	722.6	723.4	724.2	725.1	725.9
175°	724.1	723.7	723.8	724.0	724.3	724.5	724.7	725.5	726.3	727.2	728.0
177.5°	725.1	724.7	724.8	724.9	725.0	725.2	725.3	726.1	726.9	727.7	728.5
180°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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°	13.1	13.2	13.5	13.7	14.0	14.2	14.0	13.7	13.5	13.2	13.1
92.5°	13.7	13.8	13.9	14.0	14.1	14.2	14.1	14.0	13.9	13.8	13.7
95°	23.1	23.0	22.9	22.8	22.7	22.6	22.7	22.8	22.9	23.0	23.1
97.5°	28.4	28.5	28.6	28.7	28.8	28.9	28.8	28.7	28.6	28.5	28.4
100°	34.1	34.2	34.5	34.7	35.0	35.2	35.0	34.7	34.5	34.2	34.1
102.5°	36.8	37.0	37.3	37.6	38.0	38.3	38.0	37.6	37.3	37.0	36.8
105°	37.8	38.0	38.5	39.0	39.4	39.9	39.4	39.0	38.5	38.0	37.8
107.5°	38.9	39.1	39.6	40.1	40.5	41.0	40.5	40.1	39.6	39.1	38.9
110°	39.4	39.6	40.1	40.6	41.0	41.5	41.0	40.6	40.1	39.6	39.4

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	40.4	40.6	40.9	41.3	41.6	42.0	41.6	41.3	40.9	40.6	40.4
115°	80.9	76.7	68.3	59.9	51.5	43.1	51.5	59.9	68.3	76.7	80.9
117.5°	277.3	262.0	231.4	200.9	170.3	139.7	170.3	200.9	231.4	262.0	277.3
120°	391.2	383.3	367.6	351.9	336.1	320.4	336.1	351.9	367.6	383.3	391.2
122.5°	419.1	419.2	419.3	419.4	419.5	419.6	419.5	419.4	419.3	419.2	419.1
125°	447.4	447.6	447.9	448.3	448.6	449.0	448.6	448.3	447.9	447.6	447.4
127.5°	474.7	474.8	474.9	475.0	475.2	475.3	475.2	475.0	474.9	474.8	474.7
130°	500.0	499.9	499.8	499.7	499.5	499.4	499.5	499.7	499.8	499.9	500.0
132.5°	523.6	523.5	523.4	523.3	523.2	523.1	523.2	523.3	523.4	523.5	523.6
135°	546.7	546.6	546.3	546.1	545.8	545.6	545.8	546.1	546.3	546.6	546.7
137.5°	568.2	568.0	567.7	567.4	567.0	566.7	567.0	567.4	567.7	568.0	568.2
140°	588.7	588.4	587.8	587.3	586.7	586.1	586.7	587.3	587.8	588.4	588.7
142.5°	607.6	607.3	606.7	606.2	605.6	605.0	605.6	606.2	606.7	607.3	607.6
145°	624.9	624.6	624.0	623.5	622.9	622.3	622.9	623.5	624.0	624.6	624.9
147.5°	640.2	640.0	639.5	639.0	638.6	638.1	638.6	639.0	639.5	640.0	640.2
150°	654.9	654.6	654.0	653.5	652.9	652.3	652.9	653.5	654.0	654.6	654.9
152.5°	668.0	667.6	666.8	665.9	665.1	664.3	665.1	665.9	666.8	667.6	668.0
155°	679.6	679.1	678.2	677.3	676.3	675.4	676.3	677.3	678.2	679.1	679.6
157.5°	690.1	689.6	688.7	687.8	686.8	685.9	686.8	687.8	688.7	689.6	690.1
160°	698.5	698.1	697.3	696.4	695.6	694.8	695.6	696.4	697.3	698.1	698.5
162.5°	706.9	706.4	705.3	704.2	703.2	702.1	703.2	704.2	705.3	706.4	706.9
165°	713.2	712.8	712.0	711.1	710.3	709.5	710.3	711.1	712.0	712.8	713.2
167.5°	718.9	718.4	717.3	716.3	715.2	714.2	715.2	716.3	717.3	718.4	718.9
170°	723.2	722.7	721.6	720.5	719.5	718.4	719.5	720.5	721.6	722.7	723.2
172.5°	726.3	725.8	724.7	723.7	722.6	721.6	722.6	723.7	724.7	725.8	726.3
175°	728.4	727.8	726.7	725.5	724.4	723.2	724.4	725.5	726.7	727.8	728.4
177.5°	728.9	728.4	727.3	726.3	725.2	724.2	725.2	726.3	727.3	728.4	728.9
180°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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°	12.8	12.2	11.7	11.1	10.5	9.6	8.6	7.7	6.8	6.3	5.7
92.5°	13.6	13.3	13.1	12.8	12.6	12.2	11.9	11.5	11.2	11.0	11.2
95°	22.8	22.2	21.7	21.1	20.5	19.7	18.9	18.0	17.2	16.8	18.7
97.5°	28.2	27.9	27.5	27.2	26.8	24.9	23.1	21.2	19.3	18.4	23.2
100°	33.6	32.7	31.8	30.8	29.9	27.9	25.9	24.0	22.0	21.0	29.0
102.5°	36.2	34.9	33.6	32.3	31.0	52.2	73.5	94.7	116.0	126.6	126.7
105°	37.2	35.9	34.6	33.3	32.0	63.9	95.7	127.6	159.5	175.4	173.6
107.5°	38.3	37.0	35.7	34.4	33.1	72.4	111.8	151.1	190.4	210.1	208.6
110°	45.2	56.9	68.6	80.2	91.9	125.6	159.4	193.1	226.8	243.7	242.5

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	65.6	115.9	166.2	216.5	266.8	268.8	270.8	272.7	274.7	275.7	274.7
115°	107.9	161.9	216.0	270.0	324.0	321.1	318.2	315.3	312.4	310.9	309.9
117.5°	285.6	302.3	319.0	335.7	352.4	350.4	348.4	346.5	344.5	343.5	342.3
120°	390.5	389.1	387.7	386.3	384.9	382.8	380.7	378.6	376.5	375.5	374.6
122.5°	418.7	418.0	417.3	416.6	415.9	413.6	411.2	408.9	406.6	405.4	404.5
125°	447.0	446.2	445.4	444.6	443.8	441.6	439.4	437.1	434.9	433.8	433.0
127.5°	474.1	473.0	471.8	470.7	469.5	467.7	466.0	464.2	462.5	461.6	460.8
130°	499.4	498.1	496.8	495.5	494.2	492.9	491.6	490.3	489.0	488.4	487.5
132.5°	523.1	522.0	521.0	519.9	518.9	517.6	516.3	515.0	513.7	513.1	512.3
135°	546.1	544.9	543.8	542.6	541.4	540.4	539.3	538.3	537.2	536.7	535.8
137.5°	567.6	566.5	565.3	564.2	563.0	561.8	560.6	559.5	558.3	557.7	557.0
140°	588.2	587.1	586.1	585.0	584.0	582.7	581.4	580.1	578.8	578.2	577.7
142.5°	607.1	606.2	605.3	604.3	603.4	601.9	600.4	598.9	597.4	596.6	596.2
145°	624.5	623.7	622.9	622.1	621.3	619.3	617.3	615.3	613.3	612.3	612.4
147.5°	639.9	639.3	638.7	638.1	637.5	635.5	633.5	631.6	629.6	628.6	628.8
150°	654.5	653.8	653.1	652.4	651.7	649.8	648.0	646.1	644.2	643.3	643.7
152.5°	667.7	667.0	666.3	665.6	664.9	663.1	661.4	659.6	657.9	657.0	657.5
155°	679.2	678.5	677.8	677.1	676.4	675.0	673.6	672.2	670.8	670.1	670.6
157.5°	689.7	688.9	688.0	687.2	686.4	685.4	684.3	683.3	682.2	681.7	682.2
160°	698.1	697.4	696.7	696.0	695.3	694.6	693.9	693.2	692.5	692.2	692.5
162.5°	706.5	705.7	704.8	704.0	703.2	702.6	702.0	701.5	700.9	700.6	700.9
165°	712.8	712.0	711.1	710.3	709.5	709.1	708.8	708.4	708.1	707.9	708.3
167.5°	718.5	717.7	716.9	716.1	715.3	714.9	714.6	714.2	713.9	713.7	714.0
170°	722.8	722.0	721.1	720.3	719.5	719.3	719.0	718.8	718.5	718.4	718.8
172.5°	725.9	725.1	724.2	723.4	722.6	722.4	722.2	721.9	721.7	721.6	721.9
175°	728.0	727.2	726.3	725.5	724.7	724.5	724.3	724.0	723.8	723.7	724.1
177.5°	728.5	727.7	726.9	726.1	725.3	725.2	725.0	724.9	724.8	724.7	725.1
180°	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8	725.8

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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°	4.4	3.1	1.8	0.5
92.5°	11.7	12.2	12.6	13.1
95°	22.6	26.4	30.3	34.1
97.5°	32.7	42.3	51.8	61.4
100°	45.0	61.0	77.0	93.0
102.5°	126.9	127.2	127.4	127.6
105°	170.1	166.6	163.1	159.6
107.5°	205.7	202.8	199.8	196.9
110°	240.0	237.5	235.1	232.6

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	272.6	270.5	268.4	266.3
115°	307.9	306.0	304.0	302.0
117.5°	340.0	337.7	335.3	333.0
120°	372.9	371.1	369.4	367.6
122.5°	402.6	400.7	398.9	397.0
125°	431.5	430.0	428.5	427.0
127.5°	459.2	457.5	455.9	454.3
130°	485.6	483.7	481.9	480.0
132.5°	510.8	509.3	507.8	506.3
135°	533.9	532.0	530.2	528.3
137.5°	555.6	554.2	552.8	551.4
140°	576.8	575.9	574.9	574.0
142.5°	595.4	594.5	593.7	592.9
145°	612.5	612.6	612.8	612.9
147.5°	629.1	629.5	629.8	630.2
150°	644.5	645.4	646.2	647.0
152.5°	658.4	659.3	660.3	661.2
155°	671.7	672.7	673.8	674.8
157.5°	683.1	684.0	685.0	685.9
160°	693.2	693.9	694.6	695.3
162.5°	701.6	702.3	703.0	703.7
165°	709.0	709.7	710.4	711.1
167.5°	714.7	715.4	716.1	716.8
170°	719.5	720.2	720.9	721.6
172.5°	722.6	723.3	724.0	724.7
175°	724.9	725.8	726.6	727.4
177.5°	725.9	726.8	727.6	728.4
180°	725.8	725.8	725.8	725.8

TEST NUMBER: P998506

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3500K

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	15.36	16.19	16.32	17.16	18.43	12.85	13.68	13.81	14.65	15.93
	3H	16.17	16.91	17.14	17.89	19.19	14.20	14.94	15.17	15.92	17.21
	4H	16.34	17.04	17.32	18.02	19.33	14.66	15.36	15.64	16.34	17.65
	6H	16.38	17.03	17.38	18.02	19.33	14.96	15.61	15.96	16.60	17.91
	8H	16.36	16.97	17.36	17.98	19.29	15.04	15.66	16.05	16.67	17.98
	12H	16.32	16.90	17.33	17.90	19.24	15.09	15.67	16.09	16.67	18.01
4H	2H	15.40	16.10	16.39	17.08	18.39	13.29	14.00	14.29	14.98	16.28
	3H	16.38	16.96	17.38	17.97	19.29	14.75	15.34	15.76	16.35	17.67
	4H	16.65	17.18	17.66	18.19	19.53	15.29	15.82	16.30	16.83	18.17
	6H	16.78	17.24	17.80	18.27	19.60	15.66	16.12	16.69	17.15	18.49
	8H	16.78	17.20	17.80	18.23	19.58	15.77	16.20	16.80	17.23	18.58
	12H	16.74	17.13	17.78	18.16	19.52	15.83	16.21	16.87	17.25	18.61
8H	4H	16.66	17.08	17.68	18.11	19.46	15.43	15.85	16.45	16.88	18.23
	6H	16.84	17.19	17.88	18.25	19.60	15.86	16.21	16.91	17.28	18.63
	8H	16.86	17.17	17.92	18.23	19.59	16.01	16.32	17.06	17.37	18.74
	12H	16.85	17.12	17.91	18.17	19.58	16.10	16.37	17.16	17.42	18.83
12H	4H	16.61	17.00	17.65	18.04	19.39	15.40	15.78	16.44	16.82	18.18
	6H	16.81	17.12	17.87	18.18	19.54	15.86	16.17	16.91	17.22	18.59
	8H	16.84	17.12	17.90	18.16	19.57	16.02	16.29	17.07	17.33	18.74