

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: P998446

Luminaire Tested: SA2XXDIP-B485D330UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998446
REPORT IS A COMBINATION OF REPORTS P984189 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D330UB2750-4F0-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

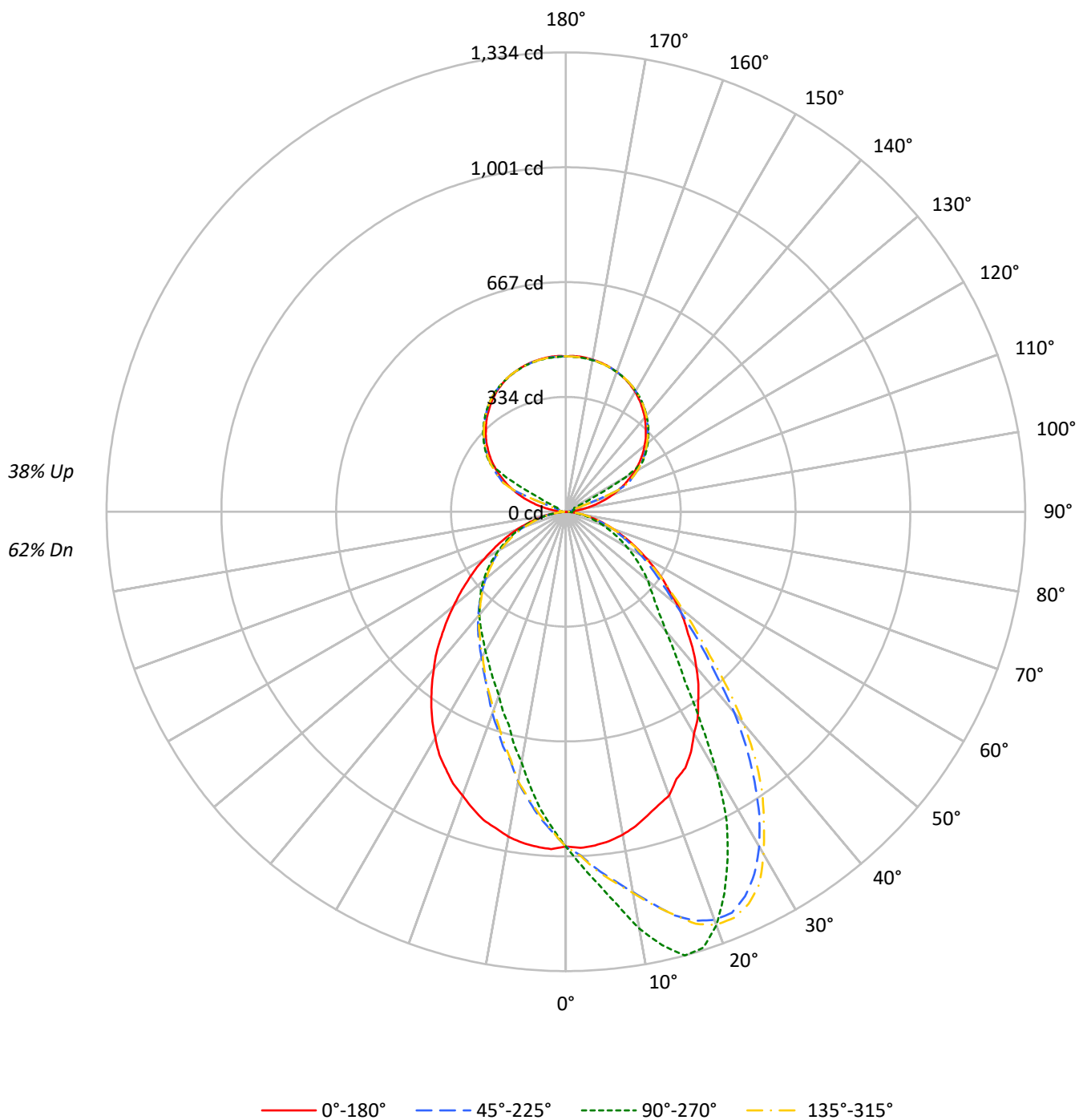
Lumens per Lamp: N/A
Luminaire Lumens: 3468.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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				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	0
RCR																					
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	67	67	67	62
1	101	97	93	90	95	91	88	85	80	77	75	70	68	66	60	59	58	58	58	58	53
2	93	85	79	74	86	80	75	71	71	67	63	62	59	56	54	52	50	50	50	50	46
3	85	76	68	63	79	71	65	60	63	58	54	55	51	48	48	45	43	43	43	43	39
4	78	67	60	54	73	64	57	51	56	51	47	50	45	42	43	40	38	38	38	38	34
5	72	60	52	46	67	57	50	45	51	45	41	45	40	37	39	36	33	33	33	33	30
6	66	54	46	41	62	52	44	39	46	40	36	41	36	33	36	32	29	29	29	29	27
7	62	49	42	36	58	47	40	35	42	36	32	37	33	29	33	29	26	26	26	26	24
8	57	45	37	32	54	43	36	31	38	33	29	34	30	26	31	27	24	24	24	24	22
9	54	41	34	29	50	39	33	28	35	30	26	32	27	24	28	25	22	22	22	22	20
10	50	38	31	26	47	36	30	25	33	27	23	29	25	22	26	23	20	20	20	20	18

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	2.7
10°-20°	269.4	7.8
20°-30°	391.0	11.3
30°-40°	412.2	11.9
40°-50°	364.7	10.5
50°-60°	291.2	8.4
60°-70°	197.8	5.7
70°-80°	101.2	2.9
80°-90°	24.7	0.7
90°-100°	14.9	0.4
100°-110°	55.5	1.6
110°-120°	147.1	4.2
120°-130°	244.0	7.0
130°-140°	259.2	7.5
140°-150°	240.9	6.9
150°-160°	193.7	5.6
160°-170°	124.8	3.6
170°-180°	43.0	1.2
0°-30°	752.9	21.7
0°-40°	1165.1	33.6
0°-60°	1821.1	52.5
0°-90°	2144.8	61.8
90°-120°	217.5	6.3
90°-150°	961.7	27.7
90°-180°	1323.0	38.1
0°-180°	3468.0	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	9	0	9	0	2
95°	21	14	21	14	21	25
105°	99	25	99	25	99	106
115°	188	27	188	27	188	185
125°	266	279	266	279	266	237
135°	329	339	329	339	329	254
145°	381	387	381	387	381	238
155°	420	420	420	420	420	193
165°	442	441	442	441	442	125
175°	452	450	452	450	452	43
180°	451	451	451	451	451	

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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°	0.3	1.1	1.9	2.7	3.5	3.9	4.2	4.8	5.3	5.9	6.5
92.5°	8.2	7.9	7.6	7.3	7.0	6.9	7.0	7.2	7.4	7.6	7.8
95°	21.2	18.8	16.4	14.1	11.7	10.5	10.7	11.2	11.7	12.2	12.7
97.5°	38.2	32.2	26.3	20.3	14.4	11.4	12.0	13.2	14.3	15.5	16.7
100°	57.8	47.9	37.9	28.0	18.1	13.1	13.7	14.9	16.2	17.4	18.6
102.5°	79.4	79.2	79.1	78.9	78.8	78.7	72.1	58.9	45.7	32.5	19.3
105°	99.3	101.5	103.7	105.8	108.0	109.1	99.2	79.4	59.5	39.7	19.9
107.5°	122.5	124.3	126.1	127.9	129.7	130.6	118.4	93.9	69.5	45.0	20.6
110°	144.7	146.2	147.7	149.2	150.7	151.5	141.0	120.1	99.1	78.2	57.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	165.6	166.9	168.2	169.5	170.8	171.5	170.9	169.6	168.4	167.1	165.9
115°	187.8	189.0	190.2	191.5	192.7	193.3	194.2	196.0	197.9	199.7	201.5
117.5°	207.1	208.5	210.0	211.4	212.9	213.6	214.2	215.4	216.7	217.9	219.1
120°	228.6	229.7	230.8	231.9	233.0	233.5	234.2	235.5	236.8	238.1	239.4
122.5°	246.9	248.1	249.2	250.4	251.5	252.1	252.8	254.3	255.8	257.2	258.7
125°	265.5	266.5	267.4	268.4	269.3	269.8	270.5	271.9	273.2	274.6	276.0
127.5°	282.5	283.5	284.5	285.6	286.6	287.1	287.6	288.7	289.8	290.9	292.0
130°	298.5	299.7	300.8	302.0	303.1	303.7	304.1	304.9	305.7	306.5	307.3
132.5°	314.8	315.8	316.7	317.7	318.6	319.1	319.5	320.3	321.1	321.9	322.7
135°	328.6	329.8	330.9	332.1	333.2	333.8	334.1	334.8	335.4	336.1	336.7
137.5°	342.9	343.8	344.6	345.5	346.4	346.8	347.2	347.9	348.6	349.4	350.1
140°	357.0	357.6	358.2	358.7	359.3	359.6	360.0	360.8	361.6	362.4	363.2
142.5°	368.7	369.2	369.7	370.2	370.7	371.0	371.5	372.4	373.4	374.3	375.3
145°	381.1	381.0	381.0	380.9	380.8	380.8	381.4	382.7	383.9	385.2	386.4
147.5°	391.9	391.7	391.5	391.2	391.0	390.9	391.5	392.8	394.0	395.3	396.5
150°	402.4	401.9	401.4	400.9	400.4	400.1	400.7	401.8	403.0	404.1	405.3
152.5°	411.2	410.6	410.0	409.5	408.9	408.6	409.1	410.2	411.3	412.4	413.5
155°	419.7	419.0	418.4	417.7	417.0	416.7	417.1	418.0	418.9	419.8	420.7
157.5°	426.5	425.9	425.3	424.8	424.2	423.9	424.2	424.9	425.6	426.2	426.9
160°	432.4	432.0	431.6	431.1	430.7	430.5	430.7	431.1	431.6	432.0	432.4
162.5°	437.6	437.2	436.8	436.3	435.9	435.7	435.9	436.2	436.6	436.9	437.3
165°	442.2	441.8	441.3	440.9	440.4	440.2	440.3	440.5	440.8	441.0	441.2
167.5°	445.8	445.4	444.9	444.5	444.0	443.8	443.9	444.1	444.4	444.6	444.8
170°	448.7	448.3	447.9	447.4	447.0	446.8	446.9	447.0	447.1	447.3	447.4
172.5°	450.7	450.3	449.8	449.4	448.9	448.7	448.8	448.9	449.1	449.2	449.4
175°	452.3	451.8	451.3	450.8	450.3	450.0	450.1	450.2	450.4	450.5	450.7
177.5°	453.0	452.5	452.0	451.5	451.0	450.7	450.7	450.8	450.9	450.9	451.0
180°	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4

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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°	6.9	7.3	7.6	8.0	8.2	8.3	8.4	8.5	8.7	8.8	8.7
92.5°	8.0	8.1	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.7
95°	13.1	13.5	13.8	14.2	14.4	14.4	14.3	14.2	14.1	14.0	14.1
97.5°	16.9	17.1	17.3	17.5	17.6	17.6	17.7	17.8	17.9	18.0	17.9
100°	19.2	19.8	20.3	20.9	21.2	21.3	21.4	21.6	21.7	21.9	21.7
102.5°	20.1	20.9	21.7	22.5	22.9	23.0	23.2	23.4	23.6	23.8	23.6
105°	20.7	21.5	22.3	23.1	23.5	23.6	23.9	24.2	24.5	24.8	24.5
107.5°	21.4	22.2	23.0	23.8	24.2	24.3	24.6	24.9	25.2	25.5	25.2
110°	49.9	42.7	35.4	28.1	24.5	24.6	24.9	25.2	25.5	25.8	25.5

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	134.6	103.3	72.0	40.7	25.1	25.2	25.4	25.7	25.9	26.1	25.9
115°	167.9	134.3	100.7	67.1	50.3	47.7	42.5	37.2	32.0	26.8	32.0
117.5°	208.7	198.3	188.0	177.6	172.4	162.9	143.9	124.9	105.9	86.9	105.9
120°	240.3	241.1	242.0	242.9	243.3	238.4	228.6	218.8	209.0	199.2	209.0
122.5°	259.1	259.5	260.0	260.4	260.6	260.6	260.7	260.8	260.8	260.9	260.8
125°	276.5	277.0	277.5	278.0	278.3	278.4	278.6	278.8	279.0	279.2	279.0
127.5°	292.7	293.4	294.1	294.8	295.2	295.2	295.3	295.4	295.5	295.6	295.5
130°	308.1	308.9	309.7	310.5	310.9	310.9	310.8	310.7	310.7	310.6	310.7
132.5°	323.3	324.0	324.6	325.3	325.6	325.6	325.5	325.4	325.4	325.3	325.4
135°	337.4	338.2	338.9	339.6	340.0	339.9	339.8	339.6	339.5	339.3	339.5
137.5°	350.8	351.6	352.3	353.0	353.4	353.3	353.1	352.8	352.6	352.4	352.6
140°	363.8	364.5	365.1	365.8	366.1	365.9	365.6	365.2	364.9	364.5	364.9
142.5°	375.9	376.5	377.0	377.6	377.9	377.7	377.3	377.0	376.6	376.2	376.6
145°	386.9	387.4	387.9	388.4	388.6	388.4	388.1	387.7	387.4	387.0	387.4
147.5°	396.9	397.2	397.6	397.9	398.1	398.0	397.7	397.4	397.1	396.8	397.1
150°	405.7	406.2	406.6	407.1	407.3	407.1	406.7	406.4	406.0	405.6	406.0
152.5°	413.9	414.3	414.8	415.2	415.4	415.1	414.6	414.1	413.6	413.1	413.6
155°	421.1	421.5	422.0	422.4	422.6	422.3	421.7	421.2	420.6	420.0	420.6
157.5°	427.4	427.9	428.4	428.9	429.1	428.8	428.2	427.7	427.1	426.5	427.1
160°	432.8	433.3	433.7	434.2	434.4	434.1	433.6	433.1	432.6	432.1	432.6
162.5°	437.8	438.3	438.8	439.3	439.6	439.3	438.6	438.0	437.3	436.7	437.3
165°	441.7	442.2	442.7	443.2	443.5	443.2	442.7	442.2	441.7	441.2	441.7
167.5°	445.3	445.8	446.3	446.8	447.1	446.8	446.1	445.5	444.8	444.2	444.8
170°	447.9	448.4	448.9	449.4	449.7	449.4	448.7	448.1	447.4	446.8	447.4
172.5°	449.9	450.4	450.9	451.4	451.7	451.4	450.7	450.0	449.4	448.7	449.4
175°	451.2	451.7	452.2	452.7	453.0	452.6	451.9	451.2	450.4	449.7	450.4
177.5°	451.5	452.0	452.5	453.0	453.3	453.0	452.3	451.7	451.0	450.4	451.0
180°	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-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°	8.5	8.4	8.3	8.2	8.0	7.6	7.3	6.9	6.5	5.9	5.3
92.5°	8.7	8.6	8.5	8.5	8.4	8.3	8.1	8.0	7.8	7.6	7.4
95°	14.2	14.3	14.4	14.4	14.2	13.8	13.5	13.1	12.7	12.2	11.7
97.5°	17.8	17.7	17.6	17.6	17.5	17.3	17.1	16.9	16.7	15.5	14.3
100°	21.6	21.4	21.3	21.2	20.9	20.3	19.8	19.2	18.6	17.4	16.2
102.5°	23.4	23.2	23.0	22.9	22.5	21.7	20.9	20.1	19.3	32.5	45.7
105°	24.2	23.9	23.6	23.5	23.1	22.3	21.5	20.7	19.9	39.7	59.5
107.5°	24.9	24.6	24.3	24.2	23.8	23.0	22.2	21.4	20.6	45.0	69.5
110°	25.2	24.9	24.6	24.5	28.1	35.4	42.7	49.9	57.2	78.2	99.1

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	25.7	25.4	25.2	25.1	40.7	72.0	103.3	134.6	165.9	167.1	168.4
115°	37.2	42.5	47.7	50.3	67.1	100.7	134.3	167.9	201.5	199.7	197.9
117.5°	124.9	143.9	162.9	172.4	177.6	188.0	198.3	208.7	219.1	217.9	216.7
120°	218.8	228.6	238.4	243.3	242.9	242.0	241.1	240.3	239.4	238.1	236.8
122.5°	260.8	260.7	260.6	260.6	260.4	260.0	259.5	259.1	258.7	257.2	255.8
125°	278.8	278.6	278.4	278.3	278.0	277.5	277.0	276.5	276.0	274.6	273.2
127.5°	295.4	295.3	295.2	295.2	294.8	294.1	293.4	292.7	292.0	290.9	289.8
130°	310.7	310.8	310.9	310.9	310.5	309.7	308.9	308.1	307.3	306.5	305.7
132.5°	325.4	325.5	325.6	325.6	325.3	324.6	324.0	323.3	322.7	321.9	321.1
135°	339.6	339.8	339.9	340.0	339.6	338.9	338.2	337.4	336.7	336.1	335.4
137.5°	352.8	353.1	353.3	353.4	353.0	352.3	351.6	350.8	350.1	349.4	348.6
140°	365.2	365.6	365.9	366.1	365.8	365.1	364.5	363.8	363.2	362.4	361.6
142.5°	377.0	377.3	377.7	377.9	377.6	377.0	376.5	375.9	375.3	374.3	373.4
145°	387.7	388.1	388.4	388.6	388.4	387.9	387.4	386.9	386.4	385.2	383.9
147.5°	397.4	397.7	398.0	398.1	397.9	397.6	397.2	396.9	396.5	395.3	394.0
150°	406.4	406.7	407.1	407.3	407.1	406.6	406.2	405.7	405.3	404.1	403.0
152.5°	414.1	414.6	415.1	415.4	415.2	414.8	414.3	413.9	413.5	412.4	411.3
155°	421.2	421.7	422.3	422.6	422.4	422.0	421.5	421.1	420.7	419.8	418.9
157.5°	427.7	428.2	428.8	429.1	428.9	428.4	427.9	427.4	426.9	426.2	425.6
160°	433.1	433.6	434.1	434.4	434.2	433.7	433.3	432.8	432.4	432.0	431.6
162.5°	438.0	438.6	439.3	439.6	439.3	438.8	438.3	437.8	437.3	436.9	436.6
165°	442.2	442.7	443.2	443.5	443.2	442.7	442.2	441.7	441.2	441.0	440.8
167.5°	445.5	446.1	446.8	447.1	446.8	446.3	445.8	445.3	444.8	444.6	444.4
170°	448.1	448.7	449.4	449.7	449.4	448.9	448.4	447.9	447.4	447.3	447.1
172.5°	450.0	450.7	451.4	451.7	451.4	450.9	450.4	449.9	449.4	449.2	449.1
175°	451.2	451.9	452.6	453.0	452.7	452.2	451.7	451.2	450.7	450.5	450.4
177.5°	451.7	452.3	453.0	453.3	453.0	452.5	452.0	451.5	451.0	450.9	450.9
180°	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-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°	4.8	4.2	3.9	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	7.2	7.0	6.9	7.0	7.3	7.6	7.9	8.2	7.9	7.6	7.3
95°	11.2	10.7	10.5	11.7	14.1	16.4	18.8	21.2	18.8	16.4	14.1
97.5°	13.2	12.0	11.4	14.4	20.3	26.3	32.2	38.2	32.2	26.3	20.3
100°	14.9	13.7	13.1	18.1	28.0	37.9	47.9	57.8	47.9	37.9	28.0
102.5°	58.9	72.1	78.7	78.8	78.9	79.1	79.2	79.4	79.2	79.1	78.9
105°	79.4	99.2	109.1	108.0	105.8	103.7	101.5	99.3	101.5	103.7	105.8
107.5°	93.9	118.4	130.6	129.7	127.9	126.1	124.3	122.5	124.3	126.1	127.9
110°	120.1	141.0	151.5	150.7	149.2	147.7	146.2	144.7	146.2	147.7	149.2



TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	169.6	170.9	171.5	170.8	169.5	168.2	166.9	165.6	166.9	168.2	169.5
115°	196.0	194.2	193.3	192.7	191.5	190.2	189.0	187.8	189.0	190.2	191.5
117.5°	215.4	214.2	213.6	212.9	211.4	210.0	208.5	207.1	208.5	210.0	211.4
120°	235.5	234.2	233.5	233.0	231.9	230.8	229.7	228.6	229.7	230.8	231.9
122.5°	254.3	252.8	252.1	251.5	250.4	249.2	248.1	246.9	248.1	249.2	250.4
125°	271.9	270.5	269.8	269.3	268.4	267.4	266.5	265.5	266.5	267.4	268.4
127.5°	288.7	287.6	287.1	286.6	285.6	284.5	283.5	282.5	283.5	284.5	285.6
130°	304.9	304.1	303.7	303.1	302.0	300.8	299.7	298.5	299.7	300.8	302.0
132.5°	320.3	319.5	319.1	318.6	317.7	316.7	315.8	314.8	315.8	316.7	317.7
135°	334.8	334.1	333.8	333.2	332.1	330.9	329.8	328.6	329.8	330.9	332.1
137.5°	347.9	347.2	346.8	346.4	345.5	344.6	343.8	342.9	343.8	344.6	345.5
140°	360.8	360.0	359.6	359.3	358.7	358.2	357.6	357.0	357.6	358.2	358.7
142.5°	372.4	371.5	371.0	370.7	370.2	369.7	369.2	368.7	369.2	369.7	370.2
145°	382.7	381.4	380.8	380.8	380.9	381.0	381.0	381.1	381.0	381.0	380.9
147.5°	392.8	391.5	390.9	391.0	391.2	391.5	391.7	391.9	391.7	391.5	391.2
150°	401.8	400.7	400.1	400.4	400.9	401.4	401.9	402.4	401.9	401.4	400.9
152.5°	410.2	409.1	408.6	408.9	409.5	410.0	410.6	411.2	410.6	410.0	409.5
155°	418.0	417.1	416.7	417.0	417.7	418.4	419.0	419.7	419.0	418.4	417.7
157.5°	424.9	424.2	423.9	424.2	424.8	425.3	425.9	426.5	425.9	425.3	424.8
160°	431.1	430.7	430.5	430.7	431.1	431.6	432.0	432.4	432.0	431.6	431.1
162.5°	436.2	435.9	435.7	435.9	436.3	436.8	437.2	437.6	437.2	436.8	436.3
165°	440.5	440.3	440.2	440.4	440.9	441.3	441.8	442.2	441.8	441.3	440.9
167.5°	444.1	443.9	443.8	444.0	444.5	444.9	445.4	445.8	445.4	444.9	444.5
170°	447.0	446.9	446.8	447.0	447.4	447.9	448.3	448.7	448.3	447.9	447.4
172.5°	448.9	448.8	448.7	448.9	449.4	449.8	450.3	450.7	450.3	449.8	449.4
175°	450.2	450.1	450.0	450.3	450.8	451.3	451.8	452.3	451.8	451.3	450.8
177.5°	450.8	450.7	450.7	451.0	451.5	452.0	452.5	453.0	452.5	452.0	451.5
180°	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-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°	3.5	3.9	4.2	4.8	5.3	5.9	6.5	6.9	7.3	7.6	8.0
92.5°	7.0	6.9	7.0	7.2	7.4	7.6	7.8	8.0	8.1	8.3	8.4
95°	11.7	10.5	10.7	11.2	11.7	12.2	12.7	13.1	13.5	13.8	14.2
97.5°	14.4	11.4	12.0	13.2	14.3	15.5	16.7	16.9	17.1	17.3	17.5
100°	18.1	13.1	13.7	14.9	16.2	17.4	18.6	19.2	19.8	20.3	20.9
102.5°	78.8	78.7	72.1	58.9	45.7	32.5	19.3	20.1	20.9	21.7	22.5
105°	108.0	109.1	99.2	79.4	59.5	39.7	19.9	20.7	21.5	22.3	23.1
107.5°	129.7	130.6	118.4	93.9	69.5	45.0	20.6	21.4	22.2	23.0	23.8
110°	150.7	151.5	141.0	120.1	99.1	78.2	57.2	49.9	42.7	35.4	28.1

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	170.8	171.5	170.9	169.6	168.4	167.1	165.9	134.6	103.3	72.0	40.7
115°	192.7	193.3	194.2	196.0	197.9	199.7	201.5	167.9	134.3	100.7	67.1
117.5°	212.9	213.6	214.2	215.4	216.7	217.9	219.1	208.7	198.3	188.0	177.6
120°	233.0	233.5	234.2	235.5	236.8	238.1	239.4	240.3	241.1	242.0	242.9
122.5°	251.5	252.1	252.8	254.3	255.8	257.2	258.7	259.1	259.5	260.0	260.4
125°	269.3	269.8	270.5	271.9	273.2	274.6	276.0	276.5	277.0	277.5	278.0
127.5°	286.6	287.1	287.6	288.7	289.8	290.9	292.0	292.7	293.4	294.1	294.8
130°	303.1	303.7	304.1	304.9	305.7	306.5	307.3	308.1	308.9	309.7	310.5
132.5°	318.6	319.1	319.5	320.3	321.1	321.9	322.7	323.3	324.0	324.6	325.3
135°	333.2	333.8	334.1	334.8	335.4	336.1	336.7	337.4	338.2	338.9	339.6
137.5°	346.4	346.8	347.2	347.9	348.6	349.4	350.1	350.8	351.6	352.3	353.0
140°	359.3	359.6	360.0	360.8	361.6	362.4	363.2	363.8	364.5	365.1	365.8
142.5°	370.7	371.0	371.5	372.4	373.4	374.3	375.3	375.9	376.5	377.0	377.6
145°	380.8	380.8	381.4	382.7	383.9	385.2	386.4	386.9	387.4	387.9	388.4
147.5°	391.0	390.9	391.5	392.8	394.0	395.3	396.5	396.9	397.2	397.6	397.9
150°	400.4	400.1	400.7	401.8	403.0	404.1	405.3	405.7	406.2	406.6	407.1
152.5°	408.9	408.6	409.1	410.2	411.3	412.4	413.5	413.9	414.3	414.8	415.2
155°	417.0	416.7	417.1	418.0	418.9	419.8	420.7	421.1	421.5	422.0	422.4
157.5°	424.2	423.9	424.2	424.9	425.6	426.2	426.9	427.4	427.9	428.4	428.9
160°	430.7	430.5	430.7	431.1	431.6	432.0	432.4	432.8	433.3	433.7	434.2
162.5°	435.9	435.7	435.9	436.2	436.6	436.9	437.3	437.8	438.3	438.8	439.3
165°	440.4	440.2	440.3	440.5	440.8	441.0	441.2	441.7	442.2	442.7	443.2
167.5°	444.0	443.8	443.9	444.1	444.4	444.6	444.8	445.3	445.8	446.3	446.8
170°	447.0	446.8	446.9	447.0	447.1	447.3	447.4	447.9	448.4	448.9	449.4
172.5°	448.9	448.7	448.8	448.9	449.1	449.2	449.4	449.9	450.4	450.9	451.4
175°	450.3	450.0	450.1	450.2	450.4	450.5	450.7	451.2	451.7	452.2	452.7
177.5°	451.0	450.7	450.7	450.8	450.9	450.9	451.0	451.5	452.0	452.5	453.0
180°	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-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°	8.2	8.3	8.4	8.5	8.7	8.8	8.7	8.5	8.4	8.3	8.2
92.5°	8.5	8.5	8.6	8.7	8.7	8.8	8.7	8.7	8.6	8.5	8.5
95°	14.4	14.4	14.3	14.2	14.1	14.0	14.1	14.2	14.3	14.4	14.4
97.5°	17.6	17.6	17.7	17.8	17.9	18.0	17.9	17.8	17.7	17.6	17.6
100°	21.2	21.3	21.4	21.6	21.7	21.9	21.7	21.6	21.4	21.3	21.2
102.5°	22.9	23.0	23.2	23.4	23.6	23.8	23.6	23.4	23.2	23.0	22.9
105°	23.5	23.6	23.9	24.2	24.5	24.8	24.5	24.2	23.9	23.6	23.5
107.5°	24.2	24.3	24.6	24.9	25.2	25.5	25.2	24.9	24.6	24.3	24.2
110°	24.5	24.6	24.9	25.2	25.5	25.8	25.5	25.2	24.9	24.6	24.5

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	25.1	25.2	25.4	25.7	25.9	26.1	25.9	25.7	25.4	25.2	25.1
115°	50.3	47.7	42.5	37.2	32.0	26.8	32.0	37.2	42.5	47.7	50.3
117.5°	172.4	162.9	143.9	124.9	105.9	86.9	105.9	124.9	143.9	162.9	172.4
120°	243.3	238.4	228.6	218.8	209.0	199.2	209.0	218.8	228.6	238.4	243.3
122.5°	260.6	260.6	260.7	260.8	260.8	260.9	260.8	260.8	260.7	260.6	260.6
125°	278.3	278.4	278.6	278.8	279.0	279.2	279.0	278.8	278.6	278.4	278.3
127.5°	295.2	295.2	295.3	295.4	295.5	295.6	295.5	295.4	295.3	295.2	295.2
130°	310.9	310.9	310.8	310.7	310.7	310.6	310.7	310.7	310.8	310.9	310.9
132.5°	325.6	325.6	325.5	325.4	325.4	325.3	325.4	325.4	325.5	325.6	325.6
135°	340.0	339.9	339.8	339.6	339.5	339.3	339.5	339.6	339.8	339.9	340.0
137.5°	353.4	353.3	353.1	352.8	352.6	352.4	352.6	352.8	353.1	353.3	353.4
140°	366.1	365.9	365.6	365.2	364.9	364.5	364.9	365.2	365.6	365.9	366.1
142.5°	377.9	377.7	377.3	377.0	376.6	376.2	376.6	377.0	377.3	377.7	377.9
145°	388.6	388.4	388.1	387.7	387.4	387.0	387.4	387.7	388.1	388.4	388.6
147.5°	398.1	398.0	397.7	397.4	397.1	396.8	397.1	397.4	397.7	398.0	398.1
150°	407.3	407.1	406.7	406.4	406.0	405.6	406.0	406.4	406.7	407.1	407.3
152.5°	415.4	415.1	414.6	414.1	413.6	413.1	413.6	414.1	414.6	415.1	415.4
155°	422.6	422.3	421.7	421.2	420.6	420.0	420.6	421.2	421.7	422.3	422.6
157.5°	429.1	428.8	428.2	427.7	427.1	426.5	427.1	427.7	428.2	428.8	429.1
160°	434.4	434.1	433.6	433.1	432.6	432.1	432.6	433.1	433.6	434.1	434.4
162.5°	439.6	439.3	438.6	438.0	437.3	436.7	437.3	438.0	438.6	439.3	439.6
165°	443.5	443.2	442.7	442.2	441.7	441.2	441.7	442.2	442.7	443.2	443.5
167.5°	447.1	446.8	446.1	445.5	444.8	444.2	444.8	445.5	446.1	446.8	447.1
170°	449.7	449.4	448.7	448.1	447.4	446.8	447.4	448.1	448.7	449.4	449.7
172.5°	451.7	451.4	450.7	450.0	449.4	448.7	449.4	450.0	450.7	451.4	451.7
175°	453.0	452.6	451.9	451.2	450.4	449.7	450.4	451.2	451.9	452.6	453.0
177.5°	453.3	453.0	452.3	451.7	451.0	450.4	451.0	451.7	452.3	453.0	453.3
180°	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-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°	8.0	7.6	7.3	6.9	6.5	5.9	5.3	4.8	4.2	3.9	3.5
92.5°	8.4	8.3	8.1	8.0	7.8	7.6	7.4	7.2	7.0	6.9	7.0
95°	14.2	13.8	13.5	13.1	12.7	12.2	11.7	11.2	10.7	10.5	11.7
97.5°	17.5	17.3	17.1	16.9	16.7	15.5	14.3	13.2	12.0	11.4	14.4
100°	20.9	20.3	19.8	19.2	18.6	17.4	16.2	14.9	13.7	13.1	18.1
102.5°	22.5	21.7	20.9	20.1	19.3	32.5	45.7	58.9	72.1	78.7	78.8
105°	23.1	22.3	21.5	20.7	19.9	39.7	59.5	79.4	99.2	109.1	108.0
107.5°	23.8	23.0	22.2	21.4	20.6	45.0	69.5	93.9	118.4	130.6	129.7
110°	28.1	35.4	42.7	49.9	57.2	78.2	99.1	120.1	141.0	151.5	150.7

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	40.7	72.0	103.3	134.6	165.9	167.1	168.4	169.6	170.9	171.5	170.8
115°	67.1	100.7	134.3	167.9	201.5	199.7	197.9	196.0	194.2	193.3	192.7
117.5°	177.6	188.0	198.3	208.7	219.1	217.9	216.7	215.4	214.2	213.6	212.9
120°	242.9	242.0	241.1	240.3	239.4	238.1	236.8	235.5	234.2	233.5	233.0
122.5°	260.4	260.0	259.5	259.1	258.7	257.2	255.8	254.3	252.8	252.1	251.5
125°	278.0	277.5	277.0	276.5	276.0	274.6	273.2	271.9	270.5	269.8	269.3
127.5°	294.8	294.1	293.4	292.7	292.0	290.9	289.8	288.7	287.6	287.1	286.6
130°	310.5	309.7	308.9	308.1	307.3	306.5	305.7	304.9	304.1	303.7	303.1
132.5°	325.3	324.6	324.0	323.3	322.7	321.9	321.1	320.3	319.5	319.1	318.6
135°	339.6	338.9	338.2	337.4	336.7	336.1	335.4	334.8	334.1	333.8	333.2
137.5°	353.0	352.3	351.6	350.8	350.1	349.4	348.6	347.9	347.2	346.8	346.4
140°	365.8	365.1	364.5	363.8	363.2	362.4	361.6	360.8	360.0	359.6	359.3
142.5°	377.6	377.0	376.5	375.9	375.3	374.3	373.4	372.4	371.5	371.0	370.7
145°	388.4	387.9	387.4	386.9	386.4	385.2	383.9	382.7	381.4	380.8	380.8
147.5°	397.9	397.6	397.2	396.9	396.5	395.3	394.0	392.8	391.5	390.9	391.0
150°	407.1	406.6	406.2	405.7	405.3	404.1	403.0	401.8	400.7	400.1	400.4
152.5°	415.2	414.8	414.3	413.9	413.5	412.4	411.3	410.2	409.1	408.6	408.9
155°	422.4	422.0	421.5	421.1	420.7	419.8	418.9	418.0	417.1	416.7	417.0
157.5°	428.9	428.4	427.9	427.4	426.9	426.2	425.6	424.9	424.2	423.9	424.2
160°	434.2	433.7	433.3	432.8	432.4	432.0	431.6	431.1	430.7	430.5	430.7
162.5°	439.3	438.8	438.3	437.8	437.3	436.9	436.6	436.2	435.9	435.7	435.9
165°	443.2	442.7	442.2	441.7	441.2	441.0	440.8	440.5	440.3	440.2	440.4
167.5°	446.8	446.3	445.8	445.3	444.8	444.6	444.4	444.1	443.9	443.8	444.0
170°	449.4	448.9	448.4	447.9	447.4	447.3	447.1	447.0	446.9	446.8	447.0
172.5°	451.4	450.9	450.4	449.9	449.4	449.2	449.1	448.9	448.8	448.7	448.9
175°	452.7	452.2	451.7	451.2	450.7	450.5	450.4	450.2	450.1	450.0	450.3
177.5°	453.0	452.5	452.0	451.5	451.0	450.9	450.9	450.8	450.7	450.7	451.0
180°	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4	451.4

TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-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°	2.7	1.9	1.1	0.3
92.5°	7.3	7.6	7.9	8.2
95°	14.1	16.4	18.8	21.2
97.5°	20.3	26.3	32.2	38.2
100°	28.0	37.9	47.9	57.8
102.5°	78.9	79.1	79.2	79.4
105°	105.8	103.7	101.5	99.3
107.5°	127.9	126.1	124.3	122.5
110°	149.2	147.7	146.2	144.7



TEST NUMBER: P998446

CATALOG NUMBER: SA2XXDIP-B485D330UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	169.5	168.2	166.9	165.6
115°	191.5	190.2	189.0	187.8
117.5°	211.4	210.0	208.5	207.1
120°	231.9	230.8	229.7	228.6
122.5°	250.4	249.2	248.1	246.9
125°	268.4	267.4	266.5	265.5
127.5°	285.6	284.5	283.5	282.5
130°	302.0	300.8	299.7	298.5
132.5°	317.7	316.7	315.8	314.8
135°	332.1	330.9	329.8	328.6
137.5°	345.5	344.6	343.8	342.9
140°	358.7	358.2	357.6	357.0
142.5°	370.2	369.7	369.2	368.7
145°	380.9	381.0	381.0	381.1
147.5°	391.2	391.5	391.7	391.9
150°	400.9	401.4	401.9	402.4
152.5°	409.5	410.0	410.6	411.2
155°	417.7	418.4	419.0	419.7
157.5°	424.8	425.3	425.9	426.5
160°	431.1	431.6	432.0	432.4
162.5°	436.3	436.8	437.2	437.6
165°	440.9	441.3	441.8	442.2
167.5°	444.5	444.9	445.4	445.8
170°	447.4	447.9	448.3	448.7
172.5°	449.4	449.8	450.3	450.7
175°	450.8	451.3	451.8	452.3
177.5°	451.5	452.0	452.5	453.0
180°	451.4	451.4	451.4	451.4

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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	16.38	17.31	17.24	18.19	19.28	13.87	14.81	14.73	15.68	16.77
	3H	17.20	18.03	18.07	18.92	20.04	15.22	16.06	16.09	16.94	18.06
	4H	17.37	18.16	18.25	19.05	20.18	15.69	16.48	16.57	17.37	18.50
	6H	17.42	18.15	18.32	19.04	20.18	16.00	16.73	16.90	17.62	18.77
	8H	17.40	18.09	18.30	19.00	20.15	16.09	16.78	16.99	17.69	18.83
	12H	17.36	18.02	18.27	18.93	20.10	16.13	16.79	17.04	17.69	18.86
4H	2H	16.43	17.22	17.32	18.11	19.24	14.33	15.12	15.22	16.01	17.14
	3H	17.42	18.07	18.32	18.99	20.14	15.80	16.45	16.70	17.37	18.52
	4H	17.70	18.29	18.61	19.21	20.38	16.33	16.93	17.24	17.85	19.02
	6H	17.83	18.35	18.76	19.29	20.46	16.72	17.23	17.64	18.17	19.34
	8H	17.83	18.31	18.76	19.25	20.43	16.83	17.31	17.76	18.24	19.43
	12H	17.80	18.23	18.75	19.18	20.37	16.89	17.32	17.84	18.27	19.46
8H	4H	17.71	18.19	18.64	19.13	20.31	16.48	16.96	17.41	17.89	19.08
	6H	17.89	18.29	18.85	19.27	20.45	16.92	17.31	17.87	18.29	19.48
	8H	17.92	18.27	18.89	19.24	20.44	17.07	17.42	18.03	18.39	19.59
	12H	17.91	18.22	18.88	19.18	20.43	17.16	17.47	18.13	18.43	19.69
12H	4H	17.67	18.10	18.62	19.06	20.25	16.46	16.89	17.41	17.84	19.03
	6H	17.87	18.22	18.84	19.19	20.39	16.92	17.27	17.88	18.24	19.44
	8H	17.91	18.22	18.87	19.17	20.43	17.08	17.39	18.05	18.35	19.60