

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: P998504

Luminaire Tested: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998504
REPORT IS A COMBINATION OF REPORTS P984247 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

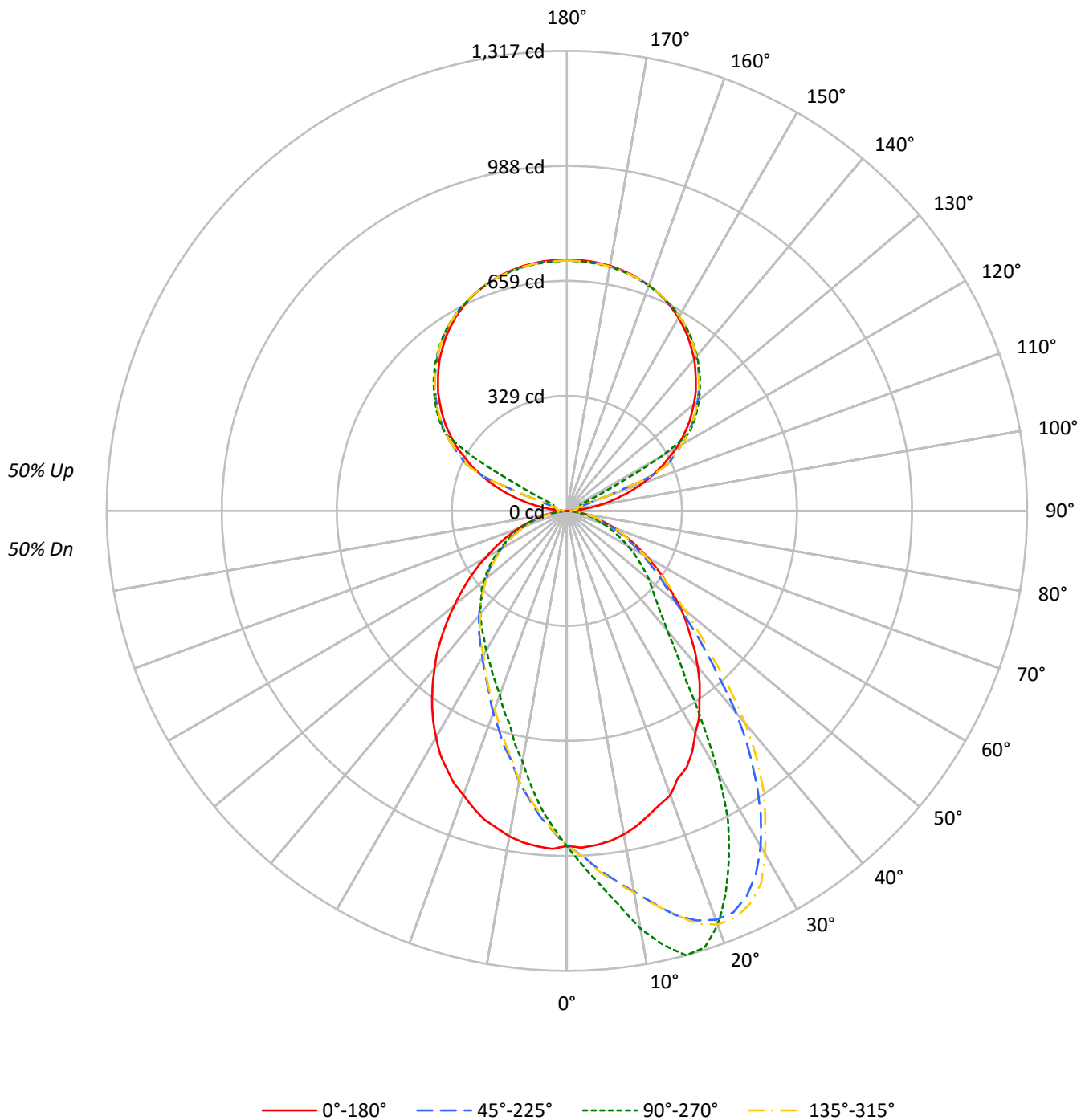
Lumens per Lamp: N/A
Luminaire Lumens: 4219.0 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	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°	15188	15188	15188	15188
5°	15226	16194	15283	12885
10°	15048	17679	15142	10622
15°	14683	18647	14887	8948
20°	14455	17508	14455	7777
25°	13993	15041	14057	6954
30°	13236	11824	13488	6300
35°	12565	8176	12774	5763
40°	11791	6173	11927	5336
45°	10841	5073	11018	4875
50°	10017	4452	10037	4463
55°	9078	3794	9140	4015
60°	8078	3169	8190	3505
65°	7185	2577	7316	2993
70°	6293	2022	6453	2413
75°	5281	1468	5488	1751
80°	4120	931	4415	1039
85°	2712	468	2924	348

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15700 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	2.2
10°-20°	266.0	6.3
20°-30°	386.1	9.2
30°-40°	407.0	9.6
40°-50°	360.1	8.5
50°-60°	287.6	6.8
60°-70°	195.3	4.6
70°-80°	99.9	2.4
80°-90°	24.9	0.6
90°-100°	23.6	0.6
100°-110°	88.1	2.1
110°-120°	233.6	5.5
120°-130°	387.5	9.2
130°-140°	411.6	9.8
140°-150°	382.5	9.1
150°-160°	307.5	7.3
160°-170°	198.2	4.7
170°-180°	68.2	1.6
0°-30°	743.5	17.6
0°-40°	1150.4	27.3
0°-60°	1798.1	42.6
0°-90°	2118.3	50.2
90°-120°	345.3	8.2
90°-150°	1526.9	36.2
90°-180°	2101.0	49.8
0°-180°	4219.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	960	960	960	960	960	
5°	960	1072	964	853	960	91
15°	902	1317	914	632	902	255
25°	810	1097	814	507	810	371
35°	662	597	673	421	662	414
45°	496	360	504	346	496	385
55°	341	253	343	268	341	304
65°	202	156	206	181	202	201
75°	94	77	98	92	94	101
85°	19	20	21	15	19	22
90°	0	14	0	14	0	3
95°	34	22	34	22	34	40
105°	158	39	158	39	158	168
115°	298	42	298	42	298	293
125°	422	443	422	443	422	376
135°	522	539	522	539	522	403
145°	605	614	605	614	605	378
155°	666	667	666	667	666	307
165°	702	700	702	700	702	198
175°	718	714	718	714	718	68
180°	717	717	717	717	717	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	964.7	966.9	970.6	971.3	978.7	984.6	991.2	991.2	993.4	992.7	986.8
5°	960.3	966.9	976.5	984.6	997.9	1003.8	1012.6	1019.3	1025.2	1029.6	1028.9
7.5°	952.9	964.7	978.7	994.2	1011.9	1022.2	1034.8	1046.6	1054.7	1062.0	1067.2
10°	940.3	960.3	979.4	1000.1	1023.0	1037.0	1051.7	1067.2	1079.7	1093.8	1107.0
12.5°	923.4	952.1	975.7	1003.0	1031.1	1046.6	1070.2	1082.0	1106.3	1141.7	1151.3
15°	902.0	941.1	963.2	997.9	1034.8	1047.3	1079.7	1098.9	1149.1	1171.2	1197.7
17.5°	882.1	925.6	955.1	994.9	1031.1	1055.4	1087.1	1126.2	1168.2	1200.0	1229.5
20°	865.9	907.9	943.3	987.5	1033.3	1064.3	1097.4	1144.6	1190.4	1222.8	1245.7
22.5°	829.0	882.8	924.1	973.5	1028.9	1071.6	1103.3	1155.0	1204.4	1224.3	1244.2
25°	810.5	857.0	904.9	961.0	1025.9	1076.8	1104.1	1161.6	1205.1	1212.5	1216.9
27.5°	776.6	829.0	885.0	949.2	1025.2	1067.9	1102.6	1155.0	1189.6	1184.5	1171.2
30°	734.6	798.7	860.7	930.0	1014.8	1061.3	1093.8	1141.7	1159.4	1132.8	1109.2
32.5°	703.6	764.1	832.7	913.1	1003.0	1047.3	1079.0	1116.6	1120.3	1072.4	1032.5
35°	661.6	728.7	806.1	890.9	983.1	1023.0	1052.5	1075.3	1057.6	990.5	943.3
37.5°	623.9	690.3	772.9	859.2	955.8	994.9	1018.5	1022.2	978.7	919.7	850.4
40°	582.6	651.2	737.5	828.2	925.6	959.5	974.3	963.2	900.5	831.9	751.5
42.5°	541.3	609.2	702.1	795.1	887.2	916.0	921.9	891.7	815.0	734.6	641.6
45°	496.4	567.2	660.1	753.8	843.0	859.2	860.0	816.4	725.7	641.6	555.4
47.5°	459.5	525.1	617.3	711.0	786.2	797.3	792.8	742.7	643.9	549.5	474.2
50°	418.9	481.6	573.1	665.2	729.4	732.4	721.3	649.8	553.1	466.9	407.1
52.5°	375.4	438.8	522.9	611.4	668.9	664.5	643.1	566.4	475.7	404.2	358.4
55°	340.7	396.8	475.7	562.0	602.6	590.0	566.4	488.2	416.7	356.2	316.4
57.5°	302.4	351.8	429.2	504.5	528.1	516.3	492.7	419.7	353.3	307.5	281.0
60°	266.2	311.2	379.1	441.8	460.2	447.7	420.4	354.8	306.8	268.5	248.5
62.5°	233.1	272.1	328.9	386.5	393.8	381.3	357.7	304.6	263.3	233.1	218.3
65°	202.1	239.0	284.7	328.2	334.8	321.6	297.2	258.9	224.2	205.0	191.0
67.5°	171.8	201.3	241.9	273.6	277.3	264.8	244.9	213.9	192.5	171.8	161.5
70°	145.3	167.4	199.1	224.9	226.4	214.6	204.3	176.3	160.0	145.3	137.2
72.5°	119.5	135.0	159.3	178.5	179.2	171.8	162.3	144.6	130.5	120.2	112.1
75°	94.4	107.7	122.4	139.4	138.7	132.8	125.4	114.3	102.5	95.9	92.2
77.5°	72.3	80.4	92.2	103.3	103.3	100.3	95.9	87.8	80.4	73.8	70.1
80°	51.6	56.8	66.4	70.1	71.5	70.8	67.1	61.2	58.3	53.1	51.6
82.5°	33.2	36.9	41.3	45.0	47.2	45.7	45.0	42.0	37.6	36.1	34.7
85°	19.2	20.7	22.9	25.1	25.8	25.1	26.6	24.3	22.1	22.1	21.4
87.5°	8.1	8.9	10.3	10.3	11.1	11.1	10.3	11.1	11.1	10.3	9.6
90°	0.5	1.8	3.0	4.3	5.6	6.2	6.7	7.6	8.5	9.5	10.4
92.5°	13.0	12.5	12.1	11.6	11.1	10.9	11.1	11.4	11.7	12.1	12.4
95°	33.7	29.9	26.1	22.3	18.5	16.6	17.0	17.8	18.6	19.4	20.2
97.5°	60.7	51.2	41.8	32.3	22.8	18.1	19.0	20.9	22.7	24.6	26.4
100°	91.8	76.0	60.2	44.4	28.6	20.7	21.7	23.7	25.6	27.6	29.6
102.5°	126.0	125.8	125.6	125.3	125.1	125.0	114.5	93.5	72.6	51.6	30.6
105°	157.6	161.1	164.5	168.0	171.5	173.2	157.5	126.0	94.5	63.1	31.6
107.5°	194.4	197.3	200.2	203.1	206.0	207.4	188.0	149.2	110.3	71.5	32.7
110°	229.7	232.1	234.5	237.0	239.4	240.6	223.9	190.6	157.3	124.0	90.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	262.9	265.0	267.0	269.1	271.2	272.2	271.2	269.3	267.3	265.4	263.4
115°	298.1	300.1	302.1	304.0	306.0	307.0	308.4	311.3	314.2	317.0	319.9
117.5°	328.7	331.0	333.3	335.6	337.9	339.1	340.1	342.0	344.0	345.9	347.9
120°	363.0	364.7	366.4	368.1	369.8	370.7	371.7	373.8	375.9	378.0	380.1
122.5°	392.0	393.8	395.7	397.5	399.4	400.3	401.5	403.8	406.1	408.4	410.7
125°	421.5	423.0	424.5	426.0	427.5	428.3	429.4	431.6	433.7	435.9	438.1
127.5°	448.5	450.1	451.7	453.4	455.0	455.8	456.7	458.4	460.1	461.8	463.5
130°	473.9	475.7	477.6	479.4	481.3	482.2	482.8	484.1	485.4	486.6	487.9
132.5°	499.8	501.3	502.8	504.3	505.8	506.6	507.2	508.5	509.8	511.0	512.3
135°	521.6	523.4	525.3	527.1	529.0	529.9	530.4	531.5	532.5	533.6	534.6
137.5°	544.4	545.8	547.2	548.6	550.0	550.7	551.3	552.4	553.5	554.7	555.8
140°	566.7	567.6	568.6	569.5	570.4	570.9	571.5	572.8	574.1	575.3	576.6
142.5°	585.4	586.2	587.0	587.8	588.6	589.0	589.8	591.3	592.8	594.3	595.8
145°	605.1	605.0	604.9	604.8	604.7	604.6	605.6	607.5	609.5	611.4	613.4
147.5°	622.2	621.8	621.5	621.1	620.8	620.6	621.6	623.6	625.5	627.5	629.5
150°	638.8	638.0	637.2	636.4	635.6	635.2	636.1	638.0	639.8	641.7	643.5
152.5°	652.8	651.9	650.9	650.0	649.1	648.6	649.5	651.2	652.9	654.7	656.4
155°	666.3	665.3	664.2	663.2	662.1	661.6	662.3	663.7	665.0	666.4	667.8
157.5°	677.2	676.3	675.3	674.4	673.5	673.0	673.5	674.6	675.6	676.7	677.7
160°	686.5	685.8	685.1	684.4	683.7	683.4	683.7	684.4	685.1	685.8	686.5
162.5°	694.8	694.1	693.4	692.7	692.0	691.7	692.0	692.6	693.1	693.7	694.3
165°	702.1	701.4	700.7	700.0	699.3	698.9	699.1	699.4	699.8	700.1	700.5
167.5°	707.8	707.1	706.4	705.7	705.0	704.6	704.8	705.1	705.5	705.8	706.2
170°	712.4	711.7	711.0	710.3	709.6	709.3	709.4	709.7	709.9	710.2	710.4
172.5°	715.5	714.8	714.1	713.4	712.7	712.4	712.5	712.8	713.0	713.3	713.5
175°	718.1	717.3	716.5	715.7	714.9	714.5	714.6	714.8	715.1	715.3	715.5
177.5°	719.2	718.4	717.6	716.7	715.9	715.5	715.6	715.7	715.8	716.0	716.1
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	997.1	997.9	999.3	1006.7	1010.4	1011.1	1008.2	1014.8	1017.1	1014.8	1013.4
5°	1044.3	1048.8	1057.6	1067.2	1066.5	1067.2	1071.6	1076.1	1077.5	1071.6	1073.8
7.5°	1085.6	1094.5	1104.1	1118.8	1118.8	1126.2	1129.2	1132.8	1141.7	1137.3	1135.8
10°	1132.8	1144.6	1162.3	1185.9	1186.7	1194.1	1201.4	1213.2	1216.9	1214.0	1215.4
12.5°	1191.8	1214.7	1216.2	1242.0	1253.8	1255.3	1267.1	1264.9	1272.2	1272.2	1284.8
15°	1217.7	1253.1	1273.0	1298.0	1305.4	1296.6	1306.2	1316.5	1317.2	1317.2	1316.5
17.5°	1264.1	1278.1	1298.0	1311.3	1314.3	1314.3	1315.0	1319.4	1316.5	1310.6	1315.0
20°	1273.7	1279.6	1287.0	1285.5	1287.0	1279.6	1272.2	1264.9	1265.6	1261.9	1273.0
22.5°	1256.0	1254.5	1237.6	1226.5	1226.5	1211.8	1197.7	1191.1	1184.5	1186.7	1190.4
25°	1211.8	1188.9	1168.2	1152.0	1148.3	1124.7	1105.6	1099.7	1088.6	1097.4	1098.9
27.5°	1141.0	1115.1	1082.0	1067.9	1048.8	1039.2	1025.9	1008.2	985.3	998.6	996.4
30°	1065.0	1026.6	999.3	965.4	935.2	933.0	907.9	878.4	866.6	866.6	873.2
32.5°	980.2	929.3	889.5	841.5	812.0	799.5	769.2	739.7	746.4	724.3	732.4
35°	881.3	814.2	764.1	717.6	695.5	680.7	641.6	625.4	607.7	597.4	616.6
37.5°	786.9	709.5	645.3	594.4	586.3	559.8	533.2	522.9	512.6	517.0	516.3
40°	671.9	603.3	545.8	505.9	491.9	479.4	461.7	449.2	442.5	446.2	446.9
42.5°	567.9	510.4	467.6	439.6	427.8	418.9	410.1	399.7	397.5	397.5	400.5
45°	487.5	440.3	411.5	388.7	382.0	375.4	368.8	364.3	362.9	359.9	362.1
47.5°	423.3	385.7	368.0	351.1	343.7	342.2	336.3	334.1	331.1	330.4	331.1
50°	369.5	345.9	329.7	320.1	314.9	312.7	309.8	305.3	303.9	307.5	306.1
52.5°	331.9	309.8	300.9	291.3	288.4	285.4	281.0	281.7	281.0	279.5	279.5
55°	294.3	280.3	271.4	264.0	263.3	260.3	256.7	255.2	254.4	253.0	255.2
57.5°	264.0	253.0	244.9	238.2	235.3	235.3	231.6	228.6	228.6	227.9	228.6
60°	233.8	222.7	217.6	210.9	208.7	208.0	205.8	204.3	202.1	202.1	202.1
62.5°	205.8	196.9	191.0	185.1	185.9	182.2	179.2	177.7	177.7	178.5	178.5
65°	179.2	173.3	165.9	160.8	159.3	158.6	157.1	156.4	154.1	155.6	155.6
67.5°	154.9	146.8	142.3	140.1	137.9	137.2	135.7	134.2	133.5	132.8	134.2
70°	130.5	123.9	120.2	118.7	116.5	115.8	115.1	112.8	113.6	114.3	115.1
72.5°	108.4	102.5	101.8	97.4	97.4	97.4	94.4	95.9	95.1	93.7	95.1
75°	85.6	82.6	81.1	78.9	79.7	78.9	78.2	76.0	76.0	76.7	77.4
77.5°	67.9	64.9	64.2	62.0	60.5	62.0	60.5	59.7	59.7	60.5	60.5
80°	50.2	48.7	46.5	46.5	46.5	45.7	45.7	45.7	45.0	44.3	45.0
82.5°	33.2	33.2	32.5	31.7	32.5	31.0	31.7	31.7	31.7	31.7	31.7
85°	21.4	20.7	20.7	19.9	19.9	19.9	20.7	19.2	19.2	19.9	19.9
87.5°	9.6	9.6	9.6	10.3	9.6	9.6	9.6	10.3	9.6	9.6	9.6
90°	11.0	11.6	12.1	12.7	13.0	13.1	13.3	13.6	13.8	14.0	13.8
92.5°	12.6	12.9	13.1	13.4	13.5	13.6	13.7	13.8	13.9	14.0	13.9
95°	20.8	21.4	21.9	22.5	22.8	22.7	22.6	22.5	22.4	22.3	22.4
97.5°	26.8	27.1	27.5	27.8	28.0	28.1	28.2	28.3	28.4	28.5	28.4
100°	30.5	31.4	32.3	33.2	33.7	33.8	34.0	34.3	34.5	34.7	34.5
102.5°	31.9	33.1	34.4	35.7	36.3	36.5	36.8	37.2	37.5	37.9	37.5
105°	32.9	34.1	35.4	36.7	37.3	37.5	38.0	38.5	38.9	39.4	38.9
107.5°	34.0	35.2	36.5	37.8	38.4	38.6	39.1	39.5	40.0	40.4	40.0
110°	79.2	67.7	56.2	44.7	38.9	39.1	39.6	40.1	40.5	41.0	40.5

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	213.7	164.1	114.4	64.7	39.9	40.1	40.4	40.8	41.1	41.5	41.1
115°	266.5	213.2	159.8	106.5	79.8	75.7	67.4	59.1	50.8	42.5	50.8
117.5°	331.4	315.0	298.5	282.0	273.8	258.7	228.5	198.3	168.1	137.9	168.1
120°	381.5	382.9	384.2	385.6	386.3	378.5	363.0	347.4	331.9	316.3	331.9
122.5°	411.4	412.1	412.8	413.5	413.8	413.9	414.0	414.1	414.2	414.3	414.2
125°	438.9	439.7	440.6	441.4	441.8	442.0	442.3	442.6	443.0	443.3	443.0
127.5°	464.7	465.8	467.0	468.1	468.7	468.8	468.9	469.0	469.1	469.2	469.1
130°	489.2	490.4	491.7	493.0	493.6	493.5	493.4	493.3	493.2	493.1	493.2
132.5°	513.3	514.3	515.4	516.4	516.9	516.8	516.7	516.6	516.5	516.4	516.5
135°	535.8	536.9	538.1	539.2	539.8	539.7	539.4	539.2	538.9	538.7	538.9
137.5°	557.0	558.1	559.3	560.4	561.0	560.8	560.5	560.2	559.8	559.5	559.8
140°	577.6	578.6	579.7	580.7	581.2	580.9	580.4	579.8	579.3	578.7	579.3
142.5°	596.7	597.6	598.5	599.4	599.9	599.6	599.0	598.5	597.9	597.3	597.9
145°	614.2	615.0	615.8	616.6	617.0	616.7	616.1	615.6	615.0	614.4	615.0
147.5°	630.1	630.7	631.2	631.8	632.1	631.9	631.4	630.9	630.5	630.0	630.5
150°	644.2	644.9	645.6	646.3	646.6	646.3	645.7	645.2	644.6	644.0	644.6
152.5°	657.1	657.8	658.5	659.2	659.5	659.1	658.3	657.5	656.7	655.9	656.7
155°	668.5	669.2	669.9	670.6	670.9	670.4	669.5	668.6	667.7	666.8	667.7
157.5°	678.5	679.3	680.1	680.9	681.3	680.8	679.9	679.0	678.1	677.2	678.1
160°	687.2	687.9	688.6	689.3	689.6	689.2	688.4	687.6	686.8	686.0	686.8
162.5°	695.1	695.9	696.7	697.5	697.9	697.4	696.3	695.3	694.2	693.2	694.2
165°	701.3	702.1	702.9	703.7	704.1	703.7	702.9	702.1	701.3	700.5	701.3
167.5°	707.0	707.8	708.6	709.4	709.8	709.3	708.3	707.2	706.2	705.2	706.2
170°	711.2	712.0	712.8	713.6	714.0	713.5	712.4	711.4	710.3	709.3	710.3
172.5°	714.3	715.1	715.9	716.7	717.1	716.6	715.5	714.5	713.4	712.4	713.4
175°	716.3	717.1	718.0	718.8	719.2	718.6	717.5	716.3	715.2	714.0	715.2
177.5°	716.9	717.7	718.5	719.3	719.7	719.2	718.1	717.1	716.0	715.0	716.0
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	1017.1	1011.9	1007.5	1008.2	1011.9	1008.9	1001.6	992.0	988.3	983.9	988.3
5°	1078.3	1073.8	1065.0	1065.7	1063.5	1060.6	1048.8	1034.0	1034.0	1022.2	1020.7
7.5°	1138.7	1132.1	1126.2	1124.7	1116.6	1110.7	1100.4	1079.7	1071.6	1057.6	1049.5
10°	1206.6	1201.4	1194.8	1186.7	1182.3	1171.9	1155.0	1124.7	1110.0	1090.8	1076.8
12.5°	1275.2	1274.4	1259.7	1243.5	1242.7	1226.5	1214.7	1174.1	1154.2	1128.4	1095.2
15°	1318.7	1315.0	1306.9	1298.8	1301.0	1283.3	1256.7	1208.8	1195.5	1164.6	1129.2
17.5°	1318.0	1318.0	1315.7	1314.3	1312.1	1306.9	1292.1	1260.4	1239.0	1200.0	1166.8
20°	1275.9	1285.5	1287.7	1287.0	1294.4	1298.0	1297.3	1277.4	1260.4	1225.8	1191.8
22.5°	1191.8	1214.0	1223.6	1229.5	1244.9	1253.1	1272.2	1264.9	1260.4	1234.6	1205.9
25°	1113.7	1121.0	1149.8	1151.3	1172.7	1192.6	1211.8	1224.3	1240.5	1230.9	1206.6
27.5°	1012.6	1029.6	1050.2	1065.7	1070.2	1110.7	1142.4	1166.0	1202.9	1205.9	1197.7
30°	898.3	906.4	940.3	961.0	984.6	1014.1	1059.8	1100.4	1133.6	1163.8	1174.1
32.5°	758.9	792.1	812.0	837.1	857.7	910.1	966.2	1018.5	1056.9	1107.8	1129.9
35°	631.3	657.1	691.1	701.4	739.0	783.3	856.3	923.4	981.6	1033.3	1078.3
37.5°	525.9	546.5	582.6	598.9	621.0	677.8	739.0	822.3	892.4	955.8	1011.9
40°	453.6	469.1	496.4	501.5	520.0	571.6	621.0	699.2	792.1	877.7	938.9
42.5°	404.2	411.5	430.0	436.6	448.4	483.1	527.3	601.1	687.4	775.9	862.2
45°	368.8	373.9	385.0	390.9	405.6	421.1	457.3	516.3	584.1	673.4	766.3
47.5°	337.0	343.7	348.1	351.8	359.9	376.9	400.5	444.0	508.9	590.8	680.7
50°	310.5	312.7	320.8	321.6	326.7	337.8	359.9	386.5	438.1	504.5	591.5
52.5°	283.9	286.2	291.3	296.5	298.7	307.5	322.3	344.4	382.8	435.1	512.6
55°	257.4	260.3	265.5	269.2	271.4	278.8	287.6	309.0	339.3	376.1	439.6
57.5°	230.8	237.5	239.0	241.2	244.9	253.0	261.1	273.6	297.2	331.1	377.6
60°	205.8	208.0	213.1	215.4	219.0	223.5	233.8	243.4	260.3	286.9	328.9
62.5°	180.0	185.1	187.3	189.5	192.5	197.7	204.3	214.6	229.4	250.8	283.9
65°	157.8	158.6	163.0	165.9	168.9	172.6	179.2	188.8	197.7	217.6	241.9
67.5°	136.4	137.9	139.4	142.3	146.0	149.7	155.6	160.8	171.8	185.1	204.3
70°	115.8	115.8	119.5	121.7	121.0	125.4	129.8	135.7	143.8	156.4	171.8
72.5°	97.4	96.6	99.6	100.3	101.8	104.7	107.7	113.6	118.0	127.6	139.4
75°	77.4	78.9	80.4	80.4	82.6	84.8	87.8	90.7	95.9	101.8	110.6
77.5°	61.2	61.2	62.7	63.4	65.6	64.9	67.9	70.8	74.5	79.7	86.3
80°	45.0	46.5	46.5	46.5	47.2	47.9	50.9	53.1	55.3	59.0	62.0
82.5°	31.7	31.7	33.2	33.2	33.2	34.7	34.7	35.4	36.9	39.1	41.3
85°	19.9	19.9	19.9	20.7	19.9	20.7	22.1	21.4	22.1	23.6	23.6
87.5°	9.6	9.6	9.6	9.6	9.6	10.3	9.6	10.3	11.1	11.1	11.1
90°	13.6	13.3	13.1	13.0	12.7	12.1	11.6	11.0	10.4	9.5	8.5
92.5°	13.8	13.7	13.6	13.5	13.4	13.1	12.9	12.6	12.4	12.1	11.7
95°	22.5	22.6	22.7	22.8	22.5	21.9	21.4	20.8	20.2	19.4	18.6
97.5°	28.3	28.2	28.1	28.0	27.8	27.5	27.1	26.8	26.4	24.6	22.7
100°	34.3	34.0	33.8	33.7	33.2	32.3	31.4	30.5	29.6	27.6	25.6
102.5°	37.2	36.8	36.5	36.3	35.7	34.4	33.1	31.9	30.6	51.6	72.6
105°	38.5	38.0	37.5	37.3	36.7	35.4	34.1	32.9	31.6	63.1	94.5
107.5°	39.5	39.1	38.6	38.4	37.8	36.5	35.2	34.0	32.7	71.5	110.3
110°	40.1	39.6	39.1	38.9	44.7	56.2	67.7	79.2	90.7	124.0	157.3

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	40.8	40.4	40.1	39.9	64.7	114.4	164.1	213.7	263.4	265.4	267.3
115°	59.1	67.4	75.7	79.8	106.5	159.8	213.2	266.5	319.9	317.0	314.2
117.5°	198.3	228.5	258.7	273.8	282.0	298.5	315.0	331.4	347.9	345.9	344.0
120°	347.4	363.0	378.5	386.3	385.6	384.2	382.9	381.5	380.1	378.0	375.9
122.5°	414.1	414.0	413.9	413.8	413.5	412.8	412.1	411.4	410.7	408.4	406.1
125°	442.6	442.3	442.0	441.8	441.4	440.6	439.7	438.9	438.1	435.9	433.7
127.5°	469.0	468.9	468.8	468.7	468.1	467.0	465.8	464.7	463.5	461.8	460.1
130°	493.3	493.4	493.5	493.6	493.0	491.7	490.4	489.2	487.9	486.6	485.4
132.5°	516.6	516.7	516.8	516.9	516.4	515.4	514.3	513.3	512.3	511.0	509.8
135°	539.2	539.4	539.7	539.8	539.2	538.1	536.9	535.8	534.6	533.6	532.5
137.5°	560.2	560.5	560.8	561.0	560.4	559.3	558.1	557.0	555.8	554.7	553.5
140°	579.8	580.4	580.9	581.2	580.7	579.7	578.6	577.6	576.6	575.3	574.1
142.5°	598.5	599.0	599.6	599.9	599.4	598.5	597.6	596.7	595.8	594.3	592.8
145°	615.6	616.1	616.7	617.0	616.6	615.8	615.0	614.2	613.4	611.4	609.5
147.5°	630.9	631.4	631.9	632.1	631.8	631.2	630.7	630.1	629.5	627.5	625.5
150°	645.2	645.7	646.3	646.6	646.3	645.6	644.9	644.2	643.5	641.7	639.8
152.5°	657.5	658.3	659.1	659.5	659.2	658.5	657.8	657.1	656.4	654.7	652.9
155°	668.6	669.5	670.4	670.9	670.6	669.9	669.2	668.5	667.8	666.4	665.0
157.5°	679.0	679.9	680.8	681.3	680.9	680.1	679.3	678.5	677.7	676.7	675.6
160°	687.6	688.4	689.2	689.6	689.3	688.6	687.9	687.2	686.5	685.8	685.1
162.5°	695.3	696.3	697.4	697.9	697.5	696.7	695.9	695.1	694.3	693.7	693.1
165°	702.1	702.9	703.7	704.1	703.7	702.9	702.1	701.3	700.5	700.1	699.8
167.5°	707.2	708.3	709.3	709.8	709.4	708.6	707.8	707.0	706.2	705.8	705.5
170°	711.4	712.4	713.5	714.0	713.6	712.8	712.0	711.2	710.4	710.2	709.9
172.5°	714.5	715.5	716.6	717.1	716.7	715.9	715.1	714.3	713.5	713.3	713.0
175°	716.3	717.5	718.6	719.2	718.8	718.0	717.1	716.3	715.5	715.3	715.1
177.5°	717.1	718.1	719.2	719.7	719.3	718.5	717.7	716.9	716.1	716.0	715.8
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	984.6	980.9	978.7	980.2	975.7	964.7	964.7	968.4	963.9	959.5	952.9
5°	1011.9	1004.5	1000.1	999.3	989.0	971.3	967.6	963.9	954.4	944.0	933.0
7.5°	1038.4	1025.2	1017.8	1012.6	997.9	975.0	965.4	957.3	941.8	926.3	912.3
10°	1060.6	1041.4	1032.5	1024.4	1005.2	976.5	961.0	946.2	926.3	906.4	888.7
12.5°	1078.3	1056.1	1045.1	1033.3	1009.7	972.1	952.9	929.3	909.4	882.8	865.1
15°	1107.8	1062.0	1051.7	1040.7	1016.3	964.7	941.1	914.5	887.2	851.8	832.7
17.5°	1131.4	1070.2	1069.4	1045.8	1014.1	961.7	925.6	890.9	861.4	826.0	795.8
20°	1145.4	1082.7	1070.9	1046.6	1006.7	941.8	904.2	865.9	834.1	791.4	761.1
22.5°	1157.2	1100.4	1069.4	1039.9	991.2	935.2	879.9	843.7	800.2	753.8	725.0
25°	1161.6	1104.1	1071.6	1037.7	980.2	916.0	853.3	814.2	765.6	723.5	684.4
27.5°	1162.3	1103.3	1063.5	1028.1	964.7	890.9	826.8	785.5	731.6	683.0	643.9
30°	1155.0	1095.2	1059.1	1020.7	949.9	868.1	794.3	748.6	691.1	642.4	601.8
32.5°	1132.8	1079.0	1049.5	1007.5	930.8	836.4	763.3	712.5	652.0	604.0	564.9
35°	1096.0	1059.1	1026.6	987.5	905.7	806.9	732.4	672.6	611.4	565.7	528.8
37.5°	1050.2	1030.3	1000.1	961.7	876.9	780.3	697.7	631.3	570.1	525.9	489.7
40°	988.3	993.4	963.9	929.3	843.0	744.2	652.7	589.3	531.8	490.5	455.1
42.5°	921.2	942.6	925.6	892.4	805.4	704.3	619.5	549.5	493.4	450.6	421.1
45°	848.9	885.8	875.4	851.1	766.3	662.3	572.3	504.5	455.1	413.8	387.9
47.5°	770.0	822.3	822.3	804.6	722.8	620.3	531.8	462.4	413.8	384.3	359.2
50°	689.6	748.6	758.2	746.4	674.1	572.3	482.3	419.7	377.6	348.9	330.4
52.5°	605.5	674.1	691.8	685.9	622.5	526.6	441.8	380.6	342.2	317.1	300.9
55°	525.1	604.8	623.9	626.2	567.2	476.4	396.8	343.0	306.1	289.1	275.1
57.5°	449.2	525.9	547.2	550.9	511.1	430.7	354.8	307.5	274.4	260.3	249.3
60°	384.3	448.4	476.4	484.6	449.9	377.6	315.7	269.9	244.9	231.6	221.3
62.5°	331.1	382.8	412.3	414.5	399.0	331.1	275.1	236.7	215.4	203.6	198.4
65°	279.5	326.0	343.7	352.5	340.0	286.9	237.5	205.8	188.8	178.5	173.3
67.5°	238.2	267.7	282.5	294.3	281.7	241.9	202.1	176.3	163.7	153.4	150.5
70°	195.4	219.8	230.8	242.6	231.6	201.3	172.6	149.0	137.9	129.8	126.1
72.5°	156.4	175.5	185.9	193.2	186.6	161.5	137.9	121.7	113.6	107.7	105.5
75°	123.9	137.2	143.1	148.2	145.3	126.1	111.4	98.1	90.7	85.6	84.1
77.5°	94.4	104.0	110.6	112.1	108.4	95.9	83.3	75.2	69.3	66.4	64.9
80°	67.1	73.0	76.7	78.9	75.2	70.1	61.2	55.3	50.2	46.5	45.7
82.5°	45.0	47.9	50.9	50.2	48.7	44.3	39.1	36.1	33.9	31.0	31.0
85°	25.8	26.6	28.0	28.8	28.0	25.1	22.1	20.7	19.2	17.0	17.0
87.5°	11.1	11.8	11.8	12.5	11.1	11.1	9.6	8.1	8.1	7.4	6.6
90°	7.6	6.7	6.2	5.6	4.3	3.0	1.8	0.5	1.8	3.0	4.3
92.5°	11.4	11.1	10.9	11.1	11.6	12.1	12.5	13.0	12.5	12.1	11.6
95°	17.8	17.0	16.6	18.5	22.3	26.1	29.9	33.7	29.9	26.1	22.3
97.5°	20.9	19.0	18.1	22.8	32.3	41.8	51.2	60.7	51.2	41.8	32.3
100°	23.7	21.7	20.7	28.6	44.4	60.2	76.0	91.8	76.0	60.2	44.4
102.5°	93.5	114.5	125.0	125.1	125.3	125.6	125.8	126.0	125.8	125.6	125.3
105°	126.0	157.5	173.2	171.5	168.0	164.5	161.1	157.6	161.1	164.5	168.0
107.5°	149.2	188.0	207.4	206.0	203.1	200.2	197.3	194.4	197.3	200.2	203.1
110°	190.6	223.9	240.6	239.4	237.0	234.5	232.1	229.7	232.1	234.5	237.0

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	269.3	271.2	272.2	271.2	269.1	267.0	265.0	262.9	265.0	267.0	269.1
115°	311.3	308.4	307.0	306.0	304.0	302.1	300.1	298.1	300.1	302.1	304.0
117.5°	342.0	340.1	339.1	337.9	335.6	333.3	331.0	328.7	331.0	333.3	335.6
120°	373.8	371.7	370.7	369.8	368.1	366.4	364.7	363.0	364.7	366.4	368.1
122.5°	403.8	401.5	400.3	399.4	397.5	395.7	393.8	392.0	393.8	395.7	397.5
125°	431.6	429.4	428.3	427.5	426.0	424.5	423.0	421.5	423.0	424.5	426.0
127.5°	458.4	456.7	455.8	455.0	453.4	451.7	450.1	448.5	450.1	451.7	453.4
130°	484.1	482.8	482.2	481.3	479.4	477.6	475.7	473.9	475.7	477.6	479.4
132.5°	508.5	507.2	506.6	505.8	504.3	502.8	501.3	499.8	501.3	502.8	504.3
135°	531.5	530.4	529.9	529.0	527.1	525.3	523.4	521.6	523.4	525.3	527.1
137.5°	552.4	551.3	550.7	550.0	548.6	547.2	545.8	544.4	545.8	547.2	548.6
140°	572.8	571.5	570.9	570.4	569.5	568.6	567.6	566.7	567.6	568.6	569.5
142.5°	591.3	589.8	589.0	588.6	587.8	587.0	586.2	585.4	586.2	587.0	587.8
145°	607.5	605.6	604.6	604.7	604.8	604.9	605.0	605.1	605.0	604.9	604.8
147.5°	623.6	621.6	620.6	620.8	621.1	621.5	621.8	622.2	621.8	621.5	621.1
150°	638.0	636.1	635.2	635.6	636.4	637.2	638.0	638.8	638.0	637.2	636.4
152.5°	651.2	649.5	648.6	649.1	650.0	650.9	651.9	652.8	651.9	650.9	650.0
155°	663.7	662.3	661.6	662.1	663.2	664.2	665.3	666.3	665.3	664.2	663.2
157.5°	674.6	673.5	673.0	673.5	674.4	675.3	676.3	677.2	676.3	675.3	674.4
160°	684.4	683.7	683.4	683.7	684.4	685.1	685.8	686.5	685.8	685.1	684.4
162.5°	692.6	692.0	691.7	692.0	692.7	693.4	694.1	694.8	694.1	693.4	692.7
165°	699.4	699.1	698.9	699.3	700.0	700.7	701.4	702.1	701.4	700.7	700.0
167.5°	705.1	704.8	704.6	705.0	705.7	706.4	707.1	707.8	707.1	706.4	705.7
170°	709.7	709.4	709.3	709.6	710.3	711.0	711.7	712.4	711.7	711.0	710.3
172.5°	712.8	712.5	712.4	712.7	713.4	714.1	714.8	715.5	714.8	714.1	713.4
175°	714.8	714.6	714.5	714.9	715.7	716.5	717.3	718.1	717.3	716.5	715.7
177.5°	715.7	715.6	715.5	715.9	716.7	717.6	718.4	719.2	718.4	717.6	716.7
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	949.2	952.9	952.1	944.8	936.7	930.0	917.5	919.0	914.5	915.3	919.7
5°	925.6	925.6	922.6	912.3	899.0	891.7	877.7	874.0	865.1	864.4	863.6
7.5°	900.5	896.8	893.1	878.4	862.2	850.4	831.2	826.8	817.9	812.0	809.1
10°	871.0	865.9	858.5	841.5	821.6	806.9	786.9	781.0	764.1	756.7	752.3
12.5°	838.6	835.6	823.8	809.8	777.4	761.1	732.4	738.3	721.3	706.6	704.3
15°	806.1	795.1	788.4	765.6	726.5	719.1	696.2	684.4	668.9	657.1	657.1
17.5°	774.4	757.4	742.7	718.4	689.6	668.9	652.0	646.1	626.9	615.1	612.9
20°	732.4	713.2	709.5	674.8	654.9	632.1	615.8	601.1	587.1	581.9	578.2
22.5°	692.5	670.4	664.5	635.0	615.1	592.2	576.0	565.7	555.4	551.7	545.0
25°	649.8	636.5	627.6	595.9	573.8	552.4	541.3	534.0	524.4	523.6	519.2
27.5°	608.5	595.9	587.1	556.8	540.6	520.7	511.8	503.7	498.6	496.4	494.1
30°	573.1	559.0	548.7	526.6	506.7	490.5	483.1	477.9	475.0	471.3	470.5
32.5°	534.0	525.9	511.8	494.9	479.4	463.9	459.5	455.8	451.4	449.9	449.2
35°	500.8	489.7	480.9	461.7	455.1	441.8	436.6	433.7	427.8	426.3	424.8
37.5°	468.3	458.0	448.4	436.6	424.1	416.7	413.8	409.3	406.4	407.1	405.6
40°	435.9	427.8	420.4	407.9	400.5	396.8	390.9	386.5	385.0	385.7	385.0
42.5°	404.2	396.8	392.4	382.8	375.4	371.7	368.0	363.6	365.8	365.8	368.0
45°	375.4	368.8	365.8	358.4	354.0	348.1	344.4	343.7	346.6	345.9	345.9
47.5°	345.9	343.7	340.0	333.4	327.5	323.8	323.0	323.0	326.0	327.5	326.7
50°	323.0	318.6	314.2	309.0	304.6	303.1	300.9	302.4	305.3	305.3	306.8
52.5°	294.3	291.3	289.8	285.4	282.5	282.5	282.5	283.2	285.4	287.6	286.9
55°	269.2	267.0	265.5	263.3	259.6	260.3	259.6	261.1	263.3	265.5	267.0
57.5°	242.6	241.9	240.4	236.7	236.7	236.0	238.2	239.0	242.6	244.1	246.3
60°	219.0	216.8	216.8	213.9	213.9	213.9	216.1	218.3	221.3	222.0	223.5
62.5°	194.0	194.0	193.2	191.0	191.0	193.2	194.0	196.9	198.4	198.4	200.6
65°	170.4	169.6	168.9	169.6	170.4	170.4	172.6	174.1	175.5	176.3	177.0
67.5°	146.8	146.0	147.5	146.8	148.2	151.2	150.5	152.7	154.9	154.9	155.6
70°	124.6	126.1	125.4	126.9	126.1	127.6	129.8	130.5	130.5	131.3	133.5
72.5°	104.0	104.0	104.0	103.3	104.0	105.5	106.9	107.7	109.2	109.9	112.1
75°	84.1	84.1	82.6	84.1	84.1	85.6	87.0	87.0	87.0	88.5	90.7
77.5°	63.4	64.2	63.4	64.9	64.9	65.6	67.1	66.4	67.9	68.6	69.3
80°	46.5	45.7	45.7	45.7	46.5	46.5	47.9	48.7	48.7	50.9	49.4
82.5°	29.5	30.2	29.5	30.2	30.2	31.0	30.2	31.0	31.7	33.2	32.5
85°	17.0	16.2	16.2	17.0	16.2	16.2	17.0	16.2	17.0	16.2	17.0
87.5°	6.6	5.9	5.9	5.9	5.9	5.2	5.2	4.4	4.4	4.4	3.7
90°	5.6	6.2	6.7	7.6	8.5	9.5	10.4	11.0	11.6	12.1	12.7
92.5°	11.1	10.9	11.1	11.4	11.7	12.1	12.4	12.6	12.9	13.1	13.4
95°	18.5	16.6	17.0	17.8	18.6	19.4	20.2	20.8	21.4	21.9	22.5
97.5°	22.8	18.1	19.0	20.9	22.7	24.6	26.4	26.8	27.1	27.5	27.8
100°	28.6	20.7	21.7	23.7	25.6	27.6	29.6	30.5	31.4	32.3	33.2
102.5°	125.1	125.0	114.5	93.5	72.6	51.6	30.6	31.9	33.1	34.4	35.7
105°	171.5	173.2	157.5	126.0	94.5	63.1	31.6	32.9	34.1	35.4	36.7
107.5°	206.0	207.4	188.0	149.2	110.3	71.5	32.7	34.0	35.2	36.5	37.8
110°	239.4	240.6	223.9	190.6	157.3	124.0	90.7	79.2	67.7	56.2	44.7

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	271.2	272.2	271.2	269.3	267.3	265.4	263.4	213.7	164.1	114.4	64.7
115°	306.0	307.0	308.4	311.3	314.2	317.0	319.9	266.5	213.2	159.8	106.5
117.5°	337.9	339.1	340.1	342.0	344.0	345.9	347.9	331.4	315.0	298.5	282.0
120°	369.8	370.7	371.7	373.8	375.9	378.0	380.1	381.5	382.9	384.2	385.6
122.5°	399.4	400.3	401.5	403.8	406.1	408.4	410.7	411.4	412.1	412.8	413.5
125°	427.5	428.3	429.4	431.6	433.7	435.9	438.1	438.9	439.7	440.6	441.4
127.5°	455.0	455.8	456.7	458.4	460.1	461.8	463.5	464.7	465.8	467.0	468.1
130°	481.3	482.2	482.8	484.1	485.4	486.6	487.9	489.2	490.4	491.7	493.0
132.5°	505.8	506.6	507.2	508.5	509.8	511.0	512.3	513.3	514.3	515.4	516.4
135°	529.0	529.9	530.4	531.5	532.5	533.6	534.6	535.8	536.9	538.1	539.2
137.5°	550.0	550.7	551.3	552.4	553.5	554.7	555.8	557.0	558.1	559.3	560.4
140°	570.4	570.9	571.5	572.8	574.1	575.3	576.6	577.6	578.6	579.7	580.7
142.5°	588.6	589.0	589.8	591.3	592.8	594.3	595.8	596.7	597.6	598.5	599.4
145°	604.7	604.6	605.6	607.5	609.5	611.4	613.4	614.2	615.0	615.8	616.6
147.5°	620.8	620.6	621.6	623.6	625.5	627.5	629.5	630.1	630.7	631.2	631.8
150°	635.6	635.2	636.1	638.0	639.8	641.7	643.5	644.2	644.9	645.6	646.3
152.5°	649.1	648.6	649.5	651.2	652.9	654.7	656.4	657.1	657.8	658.5	659.2
155°	662.1	661.6	662.3	663.7	665.0	666.4	667.8	668.5	669.2	669.9	670.6
157.5°	673.5	673.0	673.5	674.6	675.6	676.7	677.7	678.5	679.3	680.1	680.9
160°	683.7	683.4	683.7	684.4	685.1	685.8	686.5	687.2	687.9	688.6	689.3
162.5°	692.0	691.7	692.0	692.6	693.1	693.7	694.3	695.1	695.9	696.7	697.5
165°	699.3	698.9	699.1	699.4	699.8	700.1	700.5	701.3	702.1	702.9	703.7
167.5°	705.0	704.6	704.8	705.1	705.5	705.8	706.2	707.0	707.8	708.6	709.4
170°	709.6	709.3	709.4	709.7	709.9	710.2	710.4	711.2	712.0	712.8	713.6
172.5°	712.7	712.4	712.5	712.8	713.0	713.3	713.5	714.3	715.1	715.9	716.7
175°	714.9	714.5	714.6	714.8	715.1	715.3	715.5	716.3	717.1	718.0	718.8
177.5°	715.9	715.5	715.6	715.7	715.8	716.0	716.1	716.9	717.7	718.5	719.3
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	914.5	916.7	911.6	910.1	911.6	906.4	907.9	909.4	909.4	911.6	913.1
5°	861.4	858.5	853.3	851.8	850.4	852.6	851.1	853.3	854.1	859.2	860.0
7.5°	809.1	804.6	800.2	795.8	794.3	790.6	794.3	794.3	799.5	798.0	801.7
10°	747.1	746.4	740.5	738.3	735.3	729.4	737.5	735.3	739.0	745.6	747.1
12.5°	701.4	693.3	697.0	686.6	690.3	684.4	685.2	685.2	691.1	691.8	690.3
15°	657.9	651.2	641.6	637.2	635.0	632.1	641.6	642.4	638.0	648.3	644.6
17.5°	613.6	613.6	604.8	602.6	596.7	599.6	598.1	598.9	597.4	604.8	608.5
20°	575.3	571.6	568.6	569.4	562.0	560.5	559.0	560.5	565.7	570.8	572.3
22.5°	544.3	542.1	534.7	536.2	530.3	532.5	531.0	534.7	535.4	535.4	540.6
25°	514.8	511.8	512.6	509.6	507.4	507.4	505.2	507.4	510.4	511.8	512.6
27.5°	492.7	490.5	486.8	484.6	486.0	482.3	485.3	487.5	487.5	486.0	487.5
30°	466.1	467.6	467.6	460.2	463.2	461.7	463.9	465.4	465.4	466.1	464.6
32.5°	448.4	444.0	443.3	442.5	442.5	439.6	439.6	441.8	442.5	443.3	445.5
35°	424.8	424.8	421.1	423.3	420.4	421.1	420.4	421.1	422.6	420.4	422.6
37.5°	403.4	404.2	402.7	404.2	404.9	403.4	402.0	404.9	403.4	403.4	402.0
40°	385.0	384.3	385.0	385.0	385.0	385.7	384.3	384.3	384.3	382.8	381.3
42.5°	369.5	365.1	366.6	367.3	365.1	365.1	365.8	365.1	367.3	362.9	362.9
45°	347.4	345.9	346.6	346.6	348.1	345.9	347.4	348.1	345.9	345.2	343.7
47.5°	327.5	328.9	327.5	328.9	328.9	330.4	327.5	328.2	328.9	326.0	323.8
50°	307.5	307.5	309.8	309.0	309.8	308.3	308.3	307.5	308.3	306.8	304.6
52.5°	289.1	286.9	290.6	289.8	289.1	288.4	287.6	288.4	286.9	285.4	285.4
55°	266.2	266.2	268.5	269.2	269.2	267.7	266.2	267.0	266.2	265.5	264.8
57.5°	247.8	244.9	246.3	247.1	247.1	244.9	246.3	244.9	244.9	245.6	243.4
60°	224.2	224.2	222.7	224.9	224.9	223.5	223.5	224.2	222.7	222.0	221.3
62.5°	199.1	199.9	202.1	202.8	203.6	202.1	200.6	201.3	201.3	199.1	199.9
65°	177.7	179.2	182.2	181.4	180.0	180.7	179.2	180.0	177.7	178.5	176.3
67.5°	157.1	156.4	157.1	157.1	158.6	157.8	156.4	156.4	155.6	157.8	155.6
70°	135.0	135.0	135.0	135.0	135.7	136.4	135.0	133.5	134.2	132.8	132.0
72.5°	112.1	112.8	112.1	113.6	111.4	112.8	112.8	112.1	111.4	111.4	111.4
75°	90.7	92.2	90.0	90.7	90.0	91.5	90.7	90.7	89.2	88.5	89.2
77.5°	69.3	70.1	68.6	69.3	68.6	69.3	69.3	68.6	68.6	68.6	68.6
80°	49.4	50.2	49.4	48.7	47.9	49.4	47.9	48.7	49.4	48.7	50.2
82.5°	31.7	31.7	31.0	31.7	30.2	30.2	31.0	31.0	30.2	31.7	30.2
85°	15.5	15.5	17.0	15.5	14.8	14.8	14.8	15.5	14.8	16.2	15.5
87.5°	3.7	3.0	3.7	3.7	3.0	3.0	3.7	3.0	3.7	4.4	3.0
90°	13.0	13.1	13.3	13.6	13.8	14.0	13.8	13.6	13.3	13.1	13.0
92.5°	13.5	13.6	13.7	13.8	13.9	14.0	13.9	13.8	13.7	13.6	13.5
95°	22.8	22.7	22.6	22.5	22.4	22.3	22.4	22.5	22.6	22.7	22.8
97.5°	28.0	28.1	28.2	28.3	28.4	28.5	28.4	28.3	28.2	28.1	28.0
100°	33.7	33.8	34.0	34.3	34.5	34.7	34.5	34.3	34.0	33.8	33.7
102.5°	36.3	36.5	36.8	37.2	37.5	37.9	37.5	37.2	36.8	36.5	36.3
105°	37.3	37.5	38.0	38.5	38.9	39.4	38.9	38.5	38.0	37.5	37.3
107.5°	38.4	38.6	39.1	39.5	40.0	40.4	40.0	39.5	39.1	38.6	38.4
110°	38.9	39.1	39.6	40.1	40.5	41.0	40.5	40.1	39.6	39.1	38.9

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	39.9	40.1	40.4	40.8	41.1	41.5	41.1	40.8	40.4	40.1	39.9
115°	79.8	75.7	67.4	59.1	50.8	42.5	50.8	59.1	67.4	75.7	79.8
117.5°	273.8	258.7	228.5	198.3	168.1	137.9	168.1	198.3	228.5	258.7	273.8
120°	386.3	378.5	363.0	347.4	331.9	316.3	331.9	347.4	363.0	378.5	386.3
122.5°	413.8	413.9	414.0	414.1	414.2	414.3	414.2	414.1	414.0	413.9	413.8
125°	441.8	442.0	442.3	442.6	443.0	443.3	443.0	442.6	442.3	442.0	441.8
127.5°	468.7	468.8	468.9	469.0	469.1	469.2	469.1	469.0	468.9	468.8	468.7
130°	493.6	493.5	493.4	493.3	493.2	493.1	493.2	493.3	493.4	493.5	493.6
132.5°	516.9	516.8	516.7	516.6	516.5	516.4	516.5	516.6	516.7	516.8	516.9
135°	539.8	539.7	539.4	539.2	538.9	538.7	538.9	539.2	539.4	539.7	539.8
137.5°	561.0	560.8	560.5	560.2	559.8	559.5	559.8	560.2	560.5	560.8	561.0
140°	581.2	580.9	580.4	579.8	579.3	578.7	579.3	579.8	580.4	580.9	581.2
142.5°	599.9	599.6	599.0	598.5	597.9	597.3	597.9	598.5	599.0	599.6	599.9
145°	617.0	616.7	616.1	615.6	615.0	614.4	615.0	615.6	616.1	616.7	617.0
147.5°	632.1	631.9	631.4	630.9	630.5	630.0	630.5	630.9	631.4	631.9	632.1
150°	646.6	646.3	645.7	645.2	644.6	644.0	644.6	645.2	645.7	646.3	646.6
152.5°	659.5	659.1	658.3	657.5	656.7	655.9	656.7	657.5	658.3	659.1	659.5
155°	670.9	670.4	669.5	668.6	667.7	666.8	667.7	668.6	669.5	670.4	670.9
157.5°	681.3	680.8	679.9	679.0	678.1	677.2	678.1	679.0	679.9	680.8	681.3
160°	689.6	689.2	688.4	687.6	686.8	686.0	686.8	687.6	688.4	689.2	689.6
162.5°	697.9	697.4	696.3	695.3	694.2	693.2	694.2	695.3	696.3	697.4	697.9
165°	704.1	703.7	702.9	702.1	701.3	700.5	701.3	702.1	702.9	703.7	704.1
167.5°	709.8	709.3	708.3	707.2	706.2	705.2	706.2	707.2	708.3	709.3	709.8
170°	714.0	713.5	712.4	711.4	710.3	709.3	710.3	711.4	712.4	713.5	714.0
172.5°	717.1	716.6	715.5	714.5	713.4	712.4	713.4	714.5	715.5	716.6	717.1
175°	719.2	718.6	717.5	716.3	715.2	714.0	715.2	716.3	717.5	718.6	719.2
177.5°	719.7	719.2	718.1	717.1	716.0	715.0	716.0	717.1	718.1	719.2	719.7
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

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CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5	959.5
2.5°	910.8	916.7	914.5	906.4	916.0	916.0	922.6	922.6	930.8	933.7	938.1
5°	859.2	863.6	867.3	863.6	870.3	880.6	886.5	891.7	902.7	907.2	913.8
7.5°	803.9	812.0	815.7	815.7	826.8	838.6	850.4	857.7	873.2	879.1	885.8
10°	750.1	759.7	767.0	766.3	784.7	792.1	806.9	823.8	839.3	848.2	857.7
12.5°	693.3	698.4	708.8	723.5	727.9	741.2	758.2	779.6	807.6	815.7	829.7
15°	646.1	660.1	668.2	674.8	685.2	697.7	716.1	736.8	764.8	782.5	797.3
17.5°	606.2	624.7	629.8	628.4	641.6	660.8	682.2	697.7	722.8	744.2	758.2
20°	573.8	581.2	590.0	593.7	604.0	624.7	645.3	663.0	683.7	700.7	716.9
22.5°	541.3	547.2	554.6	561.3	569.4	581.2	601.1	623.2	643.1	659.3	677.8
25°	514.8	518.5	525.1	530.3	539.1	547.2	561.3	585.6	609.2	618.8	635.0
27.5°	489.0	491.9	496.4	502.3	506.7	514.8	527.3	547.2	571.6	581.2	603.3
30°	466.1	468.3	472.8	475.7	477.9	487.5	497.1	512.6	531.0	544.3	560.5
32.5°	444.7	446.9	451.4	452.1	455.1	460.2	469.1	483.1	499.3	510.4	524.4
35°	421.1	422.6	427.0	428.5	430.7	435.1	441.8	452.1	466.9	475.0	487.5
37.5°	402.7	402.0	404.9	407.1	410.1	412.3	414.5	424.8	435.9	443.3	452.8
40°	382.8	381.3	382.0	385.0	386.5	389.4	389.4	399.7	407.1	413.0	420.4
42.5°	362.9	362.1	360.7	362.1	363.6	364.3	365.1	372.5	379.8	385.0	393.1
45°	343.0	342.2	340.7	341.5	341.5	343.0	345.2	348.1	353.3	357.7	362.1
47.5°	324.5	323.0	320.8	320.1	321.6	321.6	321.6	324.5	329.7	331.1	335.6
50°	305.3	303.1	300.2	298.7	298.7	298.0	299.4	300.2	304.6	306.1	309.8
52.5°	284.7	283.2	280.3	277.3	278.0	276.6	277.3	278.0	279.5	281.7	283.9
55°	264.0	261.1	258.9	258.1	255.9	255.9	253.7	256.7	255.9	256.7	259.6
57.5°	244.1	241.2	237.5	236.0	233.8	233.1	231.6	230.8	231.6	233.8	236.0
60°	220.5	219.0	216.8	214.6	213.1	210.9	209.5	209.5	208.7	208.7	209.5
62.5°	197.7	196.9	194.0	193.2	191.8	190.3	188.1	186.6	186.6	188.1	188.8
65°	175.5	174.8	172.6	171.8	168.2	166.7	165.9	165.2	163.7	163.7	163.7
67.5°	154.9	152.7	152.7	149.0	146.0	144.6	143.1	142.3	142.3	142.3	143.1
70°	132.0	132.0	129.8	127.6	124.6	125.4	123.2	121.0	121.0	119.5	120.2
72.5°	109.9	109.2	106.9	106.2	104.0	101.8	100.3	101.8	99.6	98.8	99.6
75°	88.5	87.8	86.3	84.8	85.6	83.3	81.1	80.4	80.4	78.9	78.9
77.5°	67.9	69.3	66.4	65.6	64.2	62.7	62.0	61.2	61.2	61.2	62.7
80°	47.2	47.9	47.9	46.5	47.2	45.0	45.0	45.0	42.8	43.5	44.3
82.5°	30.2	30.2	29.5	30.2	29.5	29.5	28.8	28.8	28.0	28.0	28.8
85°	17.0	16.2	15.5	17.0	16.2	16.2	15.5	15.5	15.5	15.5	15.5
87.5°	3.7	4.4	4.4	4.4	4.4	5.2	5.2	5.2	5.9	5.9	5.9
90°	12.7	12.1	11.6	11.0	10.4	9.5	8.5	7.6	6.7	6.2	5.6
92.5°	13.4	13.1	12.9	12.6	12.4	12.1	11.7	11.4	11.1	10.9	11.1
95°	22.5	21.9	21.4	20.8	20.2	19.4	18.6	17.8	17.0	16.6	18.5
97.5°	27.8	27.5	27.1	26.8	26.4	24.6	22.7	20.9	19.0	18.1	22.8
100°	33.2	32.3	31.4	30.5	29.6	27.6	25.6	23.7	21.7	20.7	28.6
102.5°	35.7	34.4	33.1	31.9	30.6	51.6	72.6	93.5	114.5	125.0	125.1
105°	36.7	35.4	34.1	32.9	31.6	63.1	94.5	126.0	157.5	173.2	171.5
107.5°	37.8	36.5	35.2	34.0	32.7	71.5	110.3	149.2	188.0	207.4	206.0
110°	44.7	56.2	67.7	79.2	90.7	124.0	157.3	190.6	223.9	240.6	239.4

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CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	64.7	114.4	164.1	213.7	263.4	265.4	267.3	269.3	271.2	272.2	271.2
115°	106.5	159.8	213.2	266.5	319.9	317.0	314.2	311.3	308.4	307.0	306.0
117.5°	282.0	298.5	315.0	331.4	347.9	345.9	344.0	342.0	340.1	339.1	337.9
120°	385.6	384.2	382.9	381.5	380.1	378.0	375.9	373.8	371.7	370.7	369.8
122.5°	413.5	412.8	412.1	411.4	410.7	408.4	406.1	403.8	401.5	400.3	399.4
125°	441.4	440.6	439.7	438.9	438.1	435.9	433.7	431.6	429.4	428.3	427.5
127.5°	468.1	467.0	465.8	464.7	463.5	461.8	460.1	458.4	456.7	455.8	455.0
130°	493.0	491.7	490.4	489.2	487.9	486.6	485.4	484.1	482.8	482.2	481.3
132.5°	516.4	515.4	514.3	513.3	512.3	511.0	509.8	508.5	507.2	506.6	505.8
135°	539.2	538.1	536.9	535.8	534.6	533.6	532.5	531.5	530.4	529.9	529.0
137.5°	560.4	559.3	558.1	557.0	555.8	554.7	553.5	552.4	551.3	550.7	550.0
140°	580.7	579.7	578.6	577.6	576.6	575.3	574.1	572.8	571.5	570.9	570.4
142.5°	599.4	598.5	597.6	596.7	595.8	594.3	592.8	591.3	589.8	589.0	588.6
145°	616.6	615.8	615.0	614.2	613.4	611.4	609.5	607.5	605.6	604.6	604.7
147.5°	631.8	631.2	630.7	630.1	629.5	627.5	625.5	623.6	621.6	620.6	620.8
150°	646.3	645.6	644.9	644.2	643.5	641.7	639.8	638.0	636.1	635.2	635.6
152.5°	659.2	658.5	657.8	657.1	656.4	654.7	652.9	651.2	649.5	648.6	649.1
155°	670.6	669.9	669.2	668.5	667.8	666.4	665.0	663.7	662.3	661.6	662.1
157.5°	680.9	680.1	679.3	678.5	677.7	676.7	675.6	674.6	673.5	673.0	673.5
160°	689.3	688.6	687.9	687.2	686.5	685.8	685.1	684.4	683.7	683.4	683.7
162.5°	697.5	696.7	695.9	695.1	694.3	693.7	693.1	692.6	692.0	691.7	692.0
165°	703.7	702.9	702.1	701.3	700.5	700.1	699.8	699.4	699.1	698.9	699.3
167.5°	709.4	708.6	707.8	707.0	706.2	705.8	705.5	705.1	704.8	704.6	705.0
170°	713.6	712.8	712.0	711.2	710.4	710.2	709.9	709.7	709.4	709.3	709.6
172.5°	716.7	715.9	715.1	714.3	713.5	713.3	713.0	712.8	712.5	712.4	712.7
175°	718.8	718.0	717.1	716.3	715.5	715.3	715.1	714.8	714.6	714.5	714.9
177.5°	719.3	718.5	717.7	716.9	716.1	716.0	715.8	715.7	715.6	715.5	715.9
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	959.5	959.5	959.5	959.5
2.5°	941.8	941.8	952.9	964.7
5°	921.2	926.3	944.0	960.3
7.5°	901.3	910.1	932.2	952.9
10°	876.9	888.7	916.0	940.3
12.5°	853.3	864.4	896.1	923.4
15°	820.1	834.1	868.1	902.0
17.5°	786.9	801.0	842.3	882.1
20°	747.9	766.3	812.8	865.9
22.5°	711.7	734.6	786.2	829.0
25°	671.9	707.3	755.2	810.5
27.5°	636.5	671.9	720.6	776.6
30°	596.7	632.8	683.0	734.6
32.5°	558.3	591.5	640.2	703.6
35°	518.5	550.2	597.4	661.6
37.5°	482.3	513.3	564.9	623.9
40°	446.9	479.4	523.6	582.6
42.5°	413.8	442.5	482.3	541.3
45°	383.5	404.2	441.0	496.4
47.5°	351.8	370.2	404.2	459.5
50°	322.3	337.8	367.3	418.9
52.5°	293.5	306.8	334.1	375.4
55°	267.7	280.3	300.2	340.7
57.5°	241.2	250.8	269.9	302.4
60°	215.4	224.2	239.7	266.2
62.5°	189.5	196.9	211.7	233.1
65°	166.7	172.6	183.6	202.1
67.5°	144.6	148.2	157.1	171.8
70°	123.2	126.1	133.5	145.3
72.5°	100.3	103.3	111.4	119.5
75°	81.1	81.9	87.8	94.4
77.5°	63.4	62.7	67.1	72.3
80°	43.5	45.7	49.4	51.6
82.5°	29.5	30.2	31.7	33.2
85°	16.2	17.0	17.0	19.2
87.5°	6.6	7.4	7.4	8.1
90°	4.3	3.0	1.8	0.5
92.5°	11.6	12.1	12.5	13.0
95°	22.3	26.1	29.9	33.7
97.5°	32.3	41.8	51.2	60.7
100°	44.4	60.2	76.0	91.8
102.5°	125.3	125.6	125.8	126.0
105°	168.0	164.5	161.1	157.6
107.5°	203.1	200.2	197.3	194.4
110°	237.0	234.5	232.1	229.7



TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	269.1	267.0	265.0	262.9
115°	304.0	302.1	300.1	298.1
117.5°	335.6	333.3	331.0	328.7
120°	368.1	366.4	364.7	363.0
122.5°	397.5	395.7	393.8	392.0
125°	426.0	424.5	423.0	421.5
127.5°	453.4	451.7	450.1	448.5
130°	479.4	477.6	475.7	473.9
132.5°	504.3	502.8	501.3	499.8
135°	527.1	525.3	523.4	521.6
137.5°	548.6	547.2	545.8	544.4
140°	569.5	568.6	567.6	566.7
142.5°	587.8	587.0	586.2	585.4
145°	604.8	604.9	605.0	605.1
147.5°	621.1	621.5	621.8	622.2
150°	636.4	637.2	638.0	638.8
152.5°	650.0	650.9	651.9	652.8
155°	663.2	664.2	665.3	666.3
157.5°	674.4	675.3	676.3	677.2
160°	684.4	685.1	685.8	686.5
162.5°	692.7	693.4	694.1	694.8
165°	700.0	700.7	701.4	702.1
167.5°	705.7	706.4	707.1	707.8
170°	710.3	711.0	711.7	712.4
172.5°	713.4	714.1	714.8	715.5
175°	715.7	716.5	717.3	718.1
177.5°	716.7	717.6	718.4	719.2
180°	716.6	716.6	716.6	716.6

TEST NUMBER: P998504

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_2700K

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	15.32	16.15	16.28	17.12	18.39	12.81	13.64	13.77	14.61	15.88
	3H	16.13	16.87	17.10	17.85	19.14	14.15	14.89	15.13	15.88	17.17
	4H	16.29	16.99	17.28	17.98	19.28	14.61	15.31	15.60	16.30	17.60
	6H	16.34	16.98	17.33	17.97	19.29	14.92	15.56	15.92	16.55	17.87
	8H	16.31	16.93	17.32	17.94	19.25	15.00	15.61	16.00	16.62	17.93
	12H	16.28	16.86	17.28	17.86	19.20	15.04	15.63	16.05	16.63	17.96
4H	2H	15.35	16.06	16.35	17.04	18.34	13.25	13.95	14.24	14.94	16.24
	3H	16.33	16.92	17.33	17.93	19.25	14.71	15.29	15.71	16.31	17.62
	4H	16.61	17.14	17.62	18.15	19.49	15.24	15.78	16.25	16.78	18.12
	6H	16.74	17.19	17.76	18.22	19.56	15.62	16.08	16.64	17.11	18.45
	8H	16.73	17.16	17.76	18.18	19.54	15.73	16.16	16.75	17.18	18.53
	12H	16.70	17.08	17.74	18.12	19.48	15.79	16.17	16.83	17.21	18.57
8H	4H	16.61	17.04	17.64	18.07	19.42	15.38	15.81	16.41	16.83	18.18
	6H	16.79	17.14	17.84	18.21	19.56	15.82	16.17	16.86	17.23	18.58
	8H	16.82	17.13	17.88	18.18	19.55	15.97	16.28	17.02	17.33	18.70
	12H	16.80	17.08	17.86	18.12	19.53	16.06	16.33	17.11	17.38	18.79
12H	4H	16.57	16.96	17.61	17.99	19.35	15.36	15.74	16.40	16.78	18.14
	6H	16.77	17.08	17.82	18.13	19.50	15.82	16.13	16.87	17.18	18.55
	8H	16.80	17.07	17.86	18.12	19.53	15.97	16.24	17.03	17.29	18.70