

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: P998505

Luminaire Tested: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P998505
REPORT IS A COMBINATION OF REPORTS P984248 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

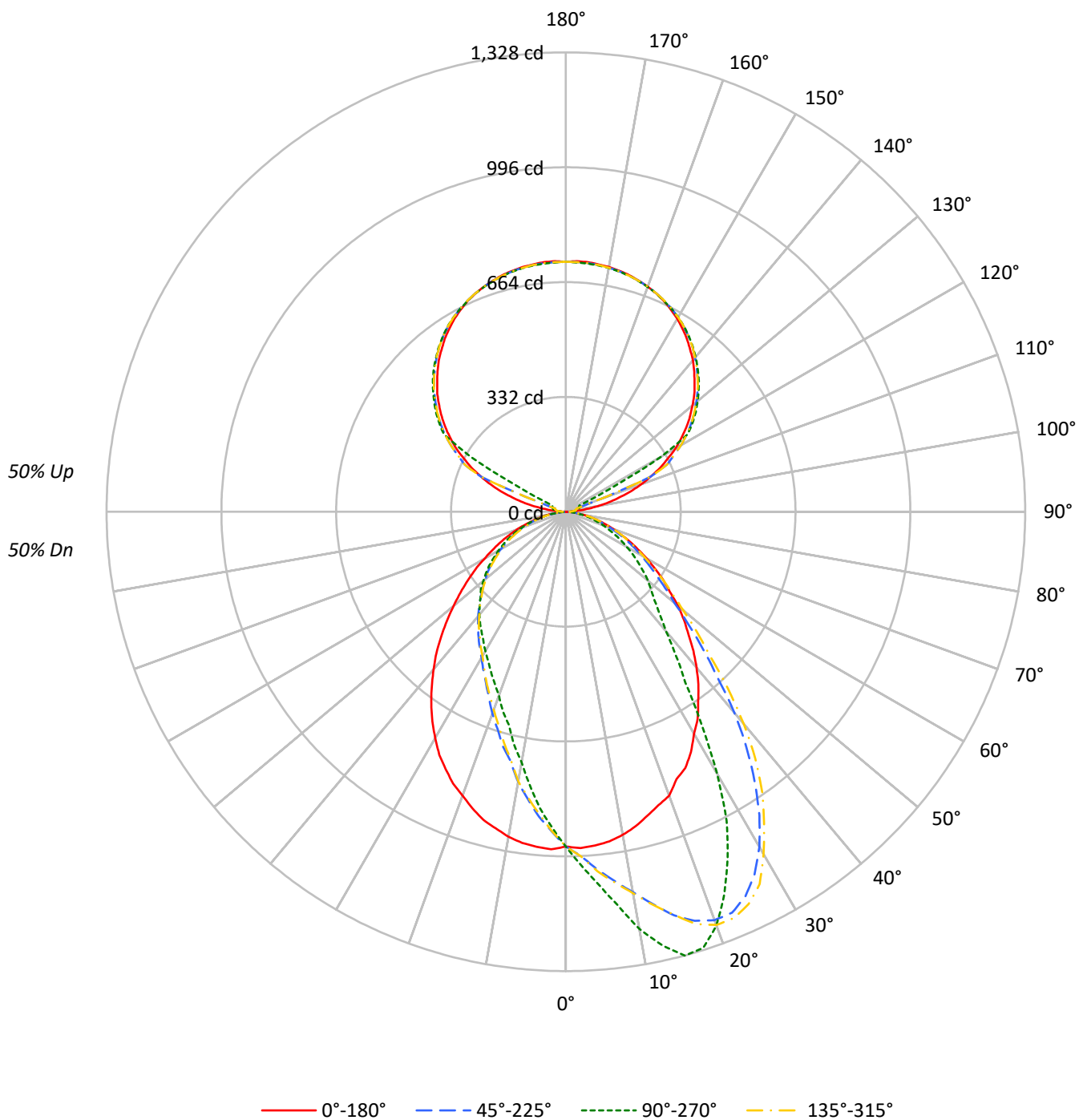
Lumens per Lamp: N/A
Luminaire Lumens: 4255.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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°	15318	15318	15318	15318
5°	15354	16332	15413	12993
10°	15176	17829	15272	10713
15°	14809	18805	15014	9023
20°	14577	17657	14577	7843
25°	14112	15170	14178	7013
30°	13348	11925	13604	6353
35°	12671	8246	12882	5813
40°	11892	6226	12028	5382
45°	10933	5116	11112	4916
50°	10103	4491	10120	4501
55°	9156	3826	9217	4049
60°	8148	3196	8260	3535
65°	7245	2599	7376	3018
70°	6344	2040	6505	2434
75°	5326	1481	5533	1765
80°	4160	938	4455	1047
85°	2726	473	2938	350

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 15834 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	2.2
10°-20°	268.3	6.3
20°-30°	389.3	9.2
30°-40°	410.4	9.6
40°-50°	363.2	8.5
50°-60°	290.0	6.8
60°-70°	197.0	4.6
70°-80°	100.8	2.4
80°-90°	25.1	0.6
90°-100°	23.8	0.6
100°-110°	88.8	2.1
110°-120°	235.6	5.5
120°-130°	390.8	9.2
130°-140°	415.1	9.8
140°-150°	385.8	9.1
150°-160°	310.2	7.3
160°-170°	199.9	4.7
170°-180°	68.8	1.6
0°-30°	749.8	17.6
0°-40°	1160.2	27.3
0°-60°	1813.4	42.6
0°-90°	2136.3	50.2
90°-120°	348.3	8.2
90°-150°	1539.9	36.2
90°-180°	2119.0	49.8
0°-180°	4255.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	968	968	968	968	968	
5°	968	1081	972	860	968	92
15°	910	1328	922	637	910	257
25°	817	1107	821	512	817	374
35°	667	602	678	425	667	417
45°	501	363	509	349	501	388
55°	344	255	346	270	344	307
65°	204	157	208	182	204	203
75°	95	77	99	92	95	102
85°	19	20	21	15	19	23
90°	0	14	0	14	0	3
95°	34	22	34	22	34	40
105°	159	40	159	40	159	170
115°	301	43	301	43	301	296
125°	425	447	425	447	425	379
135°	526	543	526	543	526	406
145°	610	620	610	620	610	382
155°	672	672	672	672	672	310
165°	708	706	708	706	708	200
175°	724	720	724	720	724	69
180°	723	723	723	723	723	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	972.9	975.1	978.8	979.6	987.0	993.0	999.7	999.7	1001.9	1001.2	995.2
5°	968.4	975.1	984.8	993.0	1006.4	1012.3	1021.2	1027.9	1033.9	1038.3	1037.6
7.5°	961.0	972.9	987.0	1002.6	1020.5	1030.9	1043.5	1055.4	1063.6	1071.1	1076.3
10°	948.3	968.4	987.8	1008.6	1031.6	1045.8	1060.7	1076.3	1088.9	1103.1	1116.4
12.5°	931.2	960.2	984.0	1011.6	1039.8	1055.4	1079.3	1091.2	1115.7	1151.4	1161.1
15°	909.7	949.1	971.4	1006.4	1043.5	1056.2	1088.9	1108.3	1158.8	1181.2	1207.9
17.5°	889.6	933.5	963.2	1003.4	1039.8	1064.4	1096.4	1135.8	1178.2	1210.2	1239.9
20°	873.2	915.6	951.3	995.9	1042.1	1073.3	1106.8	1154.4	1200.5	1233.2	1256.3
22.5°	836.0	890.3	932.0	981.8	1037.6	1080.7	1112.7	1164.8	1214.6	1234.7	1254.8
25°	817.4	864.3	912.6	969.2	1034.6	1085.9	1113.5	1171.5	1215.4	1222.8	1227.3
27.5°	783.2	836.0	892.6	957.3	1033.9	1077.0	1112.0	1164.8	1199.7	1194.5	1181.2
30°	740.8	805.5	868.0	937.9	1023.5	1070.3	1103.1	1151.4	1169.3	1142.5	1118.7
32.5°	709.6	770.6	839.7	920.8	1011.6	1056.2	1088.2	1126.1	1129.8	1081.5	1041.3
35°	667.2	734.9	813.0	898.5	991.5	1031.6	1061.4	1084.5	1066.6	998.9	951.3
37.5°	629.3	696.2	779.5	866.5	964.0	1003.4	1027.2	1030.9	987.0	927.5	857.6
40°	587.6	656.8	743.8	835.3	933.5	967.7	982.6	971.4	908.2	839.0	757.9
42.5°	545.9	614.4	708.1	801.8	894.8	923.8	929.7	899.3	821.9	740.8	647.1
45°	500.6	572.0	665.7	760.2	850.2	866.5	867.3	823.4	731.9	647.1	560.1
47.5°	463.4	529.6	622.6	717.0	792.9	804.0	799.6	749.0	649.3	554.1	478.3
50°	422.5	485.7	577.9	670.9	735.6	738.6	727.4	655.3	557.8	470.8	410.6
52.5°	378.6	442.6	527.4	616.6	674.6	670.2	648.6	571.2	479.7	407.6	361.5
55°	343.6	400.2	479.7	566.8	607.7	595.0	571.2	492.4	420.2	359.3	319.1
57.5°	305.0	354.8	432.9	508.8	532.6	520.7	496.9	423.2	356.3	310.2	283.4
60°	268.5	313.9	382.3	445.5	464.1	451.5	424.0	357.8	309.4	270.7	250.7
62.5°	235.0	274.5	331.7	389.8	397.2	384.5	360.7	307.2	265.5	235.0	220.2
65°	203.8	241.0	287.1	331.0	337.7	324.3	299.8	261.1	226.1	206.8	192.6
67.5°	173.3	203.1	244.0	275.9	279.7	267.0	246.9	215.7	194.1	173.3	162.9
70°	146.5	168.8	200.8	226.9	228.3	216.4	206.0	177.8	161.4	146.5	138.3
72.5°	120.5	136.1	160.7	180.0	180.7	173.3	163.6	145.8	131.7	121.2	113.1
75°	95.2	108.6	123.5	140.6	139.8	133.9	126.4	115.3	103.4	96.7	93.0
77.5°	72.9	81.1	93.0	104.1	104.1	101.2	96.7	88.5	81.1	74.4	70.7
80°	52.1	57.3	66.9	70.7	72.1	71.4	67.7	61.7	58.8	53.6	52.1
82.5°	33.5	37.2	41.7	45.4	47.6	46.1	45.4	42.4	37.9	36.4	35.0
85°	19.3	20.8	23.1	25.3	26.0	25.3	26.8	24.5	22.3	22.3	21.6
87.5°	8.2	8.9	10.4	10.4	11.2	11.2	10.4	11.2	11.2	10.4	9.7
90°	0.5	1.8	3.1	4.4	5.7	6.3	6.8	7.7	8.6	9.6	10.5
92.5°	13.1	12.6	12.2	11.7	11.2	11.0	11.2	11.5	11.9	12.2	12.6
95°	34.0	30.2	26.3	22.5	18.6	16.7	17.1	17.9	18.8	19.6	20.4
97.5°	61.2	51.7	42.1	32.6	23.1	18.3	19.2	21.1	23.0	24.8	26.7
100°	92.6	76.7	60.7	44.8	28.9	20.9	21.9	23.9	25.8	27.8	29.8
102.5°	127.1	126.9	126.6	126.4	126.1	126.0	115.4	94.3	73.2	52.0	30.9
105°	159.0	162.5	166.0	169.5	173.0	174.7	158.8	127.1	95.4	63.6	31.9
107.5°	196.1	199.0	201.9	204.8	207.7	209.2	189.6	150.4	111.3	72.1	32.9
110°	231.7	234.1	236.5	239.0	241.4	242.6	225.8	192.2	158.7	125.1	91.5

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	265.1	267.2	269.3	271.4	273.5	274.5	273.5	271.6	269.6	267.7	265.7
115°	300.7	302.7	304.7	306.6	308.6	309.6	311.1	314.0	316.9	319.8	322.7
117.5°	331.5	333.8	336.2	338.5	340.8	342.0	343.0	345.0	346.9	348.9	350.9
120°	366.1	367.8	369.6	371.3	373.0	373.9	374.9	377.0	379.1	381.2	383.3
122.5°	395.3	397.2	399.0	400.9	402.8	403.7	404.9	407.2	409.5	411.9	414.2
125°	425.2	426.7	428.2	429.7	431.2	432.0	433.1	435.3	437.5	439.7	441.9
127.5°	452.3	453.9	455.6	457.2	458.9	459.7	460.6	462.3	464.0	465.8	467.5
130°	478.0	479.8	481.7	483.5	485.4	486.3	486.9	488.2	489.5	490.8	492.1
132.5°	504.1	505.6	507.1	508.6	510.1	510.9	511.5	512.8	514.1	515.4	516.7
135°	526.1	527.9	529.8	531.6	533.5	534.4	534.9	536.0	537.1	538.1	539.2
137.5°	549.1	550.5	551.9	553.3	554.7	555.4	556.0	557.1	558.3	559.4	560.6
140°	571.6	572.5	573.5	574.4	575.3	575.8	576.4	577.7	579.0	580.2	581.5
142.5°	590.4	591.2	592.0	592.9	593.7	594.1	594.9	596.4	597.9	599.4	600.9
145°	610.3	610.2	610.1	610.0	609.9	609.8	610.8	612.7	614.7	616.6	618.6
147.5°	627.5	627.2	626.8	626.5	626.2	626.0	627.0	629.0	630.9	632.9	634.9
150°	644.3	643.5	642.7	641.8	641.0	640.6	641.5	643.4	645.3	647.1	649.0
152.5°	658.4	657.5	656.5	655.6	654.7	654.2	655.1	656.8	658.5	660.3	662.0
155°	672.0	671.0	669.9	668.9	667.8	667.3	668.0	669.4	670.8	672.2	673.6
157.5°	683.0	682.1	681.1	680.2	679.3	678.8	679.3	680.4	681.4	682.5	683.5
160°	692.4	691.7	691.0	690.3	689.6	689.2	689.6	690.3	691.0	691.7	692.4
162.5°	700.7	700.0	699.3	698.6	697.9	697.6	697.9	698.5	699.0	699.6	700.2
165°	708.1	707.4	706.7	706.0	705.3	704.9	705.1	705.4	705.8	706.1	706.5
167.5°	713.8	713.1	712.4	711.7	711.0	710.7	710.9	711.2	711.5	711.9	712.2
170°	718.5	717.8	717.1	716.4	715.7	715.4	715.5	715.7	716.0	716.2	716.4
172.5°	721.7	721.0	720.3	719.6	718.9	718.5	718.6	718.9	719.1	719.4	719.6
175°	724.3	723.5	722.7	721.8	721.0	720.6	720.7	721.0	721.2	721.5	721.7
177.5°	725.3	724.5	723.7	722.9	722.1	721.7	721.8	721.9	722.0	722.1	722.2
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	1005.6	1006.4	1007.8	1015.3	1019.0	1019.7	1016.8	1023.5	1025.7	1023.5	1022.0
5°	1053.2	1057.7	1066.6	1076.3	1075.5	1076.3	1080.7	1085.2	1086.7	1080.7	1083.0
7.5°	1094.9	1103.8	1113.5	1128.3	1128.3	1135.8	1138.8	1142.5	1151.4	1146.9	1145.4
10°	1142.5	1154.4	1172.2	1196.0	1196.8	1204.2	1211.6	1223.5	1227.3	1224.3	1225.8
12.5°	1202.0	1225.0	1226.5	1252.6	1264.5	1265.9	1277.8	1275.6	1283.1	1283.1	1295.7
15°	1228.0	1263.7	1283.8	1309.1	1316.5	1307.6	1317.3	1327.7	1328.4	1328.4	1327.7
17.5°	1274.9	1289.0	1309.1	1322.5	1325.4	1325.4	1326.2	1330.7	1327.7	1321.7	1326.2
20°	1284.5	1290.5	1297.9	1296.4	1297.9	1290.5	1283.1	1275.6	1276.4	1272.6	1283.8
22.5°	1266.7	1265.2	1248.1	1236.9	1236.9	1222.1	1207.9	1201.2	1194.5	1196.8	1200.5
25°	1222.1	1199.0	1178.2	1161.8	1158.1	1134.3	1115.0	1109.0	1097.8	1106.8	1108.3
27.5°	1150.7	1124.6	1091.2	1077.0	1057.7	1048.0	1034.6	1016.8	993.7	1007.1	1004.9
30°	1074.0	1035.4	1007.8	973.6	943.1	940.9	915.6	885.9	874.0	874.0	880.7
32.5°	988.5	937.2	897.0	848.7	818.9	806.3	775.8	746.0	752.7	730.4	738.6
35°	888.8	821.2	770.6	723.7	701.4	686.5	647.1	630.7	612.9	602.5	621.8
37.5°	793.6	715.5	650.8	599.5	591.3	564.5	537.8	527.4	516.9	521.4	520.7
40°	677.6	608.4	550.4	510.2	496.1	483.5	465.6	453.0	446.3	450.0	450.7
42.5°	572.7	514.7	471.6	443.3	431.4	422.5	413.6	403.1	400.9	400.9	403.9
45°	491.7	444.0	415.0	392.0	385.3	378.6	371.9	367.4	365.9	363.0	365.2
47.5°	426.9	389.0	371.2	354.0	346.6	345.1	339.2	336.9	334.0	333.2	334.0
50°	372.6	348.8	332.5	322.8	317.6	315.4	312.4	307.9	306.4	310.2	308.7
52.5°	334.7	312.4	303.5	293.8	290.8	287.8	283.4	284.1	283.4	281.9	281.9
55°	296.8	282.6	273.7	266.3	265.5	262.6	258.8	257.4	256.6	255.1	257.4
57.5°	266.3	255.1	246.9	240.2	237.3	237.3	233.6	230.6	230.6	229.8	230.6
60°	235.8	224.6	219.4	212.7	210.5	209.8	207.5	206.0	203.8	203.8	203.8
62.5°	207.5	198.6	192.6	186.7	187.4	183.7	180.7	179.3	179.3	180.0	180.0
65°	180.7	174.8	167.4	162.1	160.7	159.9	158.4	157.7	155.5	156.9	156.9
67.5°	156.2	148.0	143.6	141.3	139.1	138.3	136.9	135.4	134.6	133.9	135.4
70°	131.7	125.0	121.2	119.8	117.5	116.8	116.0	113.8	114.5	115.3	116.0
72.5°	109.3	103.4	102.6	98.2	98.2	98.2	95.2	96.7	95.9	94.5	95.9
75°	86.3	83.3	81.8	79.6	80.3	79.6	78.8	76.6	76.6	77.4	78.1
77.5°	68.4	65.5	64.7	62.5	61.0	62.5	61.0	60.2	60.2	61.0	61.0
80°	50.6	49.1	46.9	46.9	46.9	46.1	46.1	46.1	45.4	44.6	45.4
82.5°	33.5	33.5	32.7	32.0	32.7	31.2	32.0	32.0	32.0	32.0	32.0
85°	21.6	20.8	20.8	20.1	20.1	20.1	20.8	19.3	19.3	20.1	20.1
87.5°	9.7	9.7	9.7	10.4	9.7	9.7	9.7	10.4	9.7	9.7	9.7
90°	11.1	11.7	12.2	12.8	13.1	13.2	13.4	13.7	13.9	14.1	13.9
92.5°	12.8	13.0	13.3	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.0
95°	21.0	21.6	22.1	22.7	23.0	22.9	22.8	22.7	22.6	22.5	22.6
97.5°	27.0	27.4	27.7	28.0	28.2	28.3	28.4	28.5	28.7	28.8	28.7
100°	30.7	31.7	32.6	33.5	34.0	34.1	34.3	34.6	34.8	35.0	34.8
102.5°	32.2	33.4	34.7	36.0	36.6	36.8	37.1	37.5	37.8	38.2	37.8
105°	33.2	34.5	35.8	37.1	37.7	37.9	38.4	38.8	39.3	39.7	39.3
107.5°	34.2	35.5	36.8	38.1	38.7	38.9	39.4	39.9	40.3	40.8	40.3
110°	79.9	68.3	56.6	45.0	39.2	39.4	39.9	40.4	40.8	41.3	40.8

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	215.6	165.5	115.4	65.3	40.3	40.5	40.8	41.1	41.5	41.8	41.5
115°	268.9	215.1	161.2	107.4	80.5	76.3	68.0	59.6	51.3	42.9	51.3
117.5°	334.3	317.7	301.0	284.4	276.1	260.9	230.4	200.0	169.5	139.1	169.5
120°	384.7	386.1	387.5	388.9	389.6	381.8	366.1	350.4	334.7	319.0	334.7
122.5°	414.9	415.6	416.3	417.0	417.3	417.4	417.5	417.6	417.7	417.8	417.7
125°	442.7	443.5	444.3	445.1	445.5	445.7	446.0	446.4	446.7	447.1	446.7
127.5°	468.7	469.8	471.0	472.1	472.7	472.8	472.9	473.0	473.2	473.3	473.2
130°	493.4	494.6	495.9	497.2	497.8	497.7	497.6	497.5	497.4	497.3	497.4
132.5°	517.7	518.8	519.8	520.9	521.4	521.3	521.2	521.1	521.0	520.9	521.0
135°	540.4	541.5	542.7	543.8	544.4	544.3	544.0	543.8	543.5	543.3	543.5
137.5°	561.8	562.9	564.1	565.2	565.8	565.6	565.3	565.0	564.6	564.3	564.6
140°	582.5	583.6	584.6	585.7	586.2	585.9	585.3	584.8	584.2	583.6	584.2
142.5°	601.8	602.7	603.6	604.5	605.0	604.7	604.1	603.6	603.0	602.4	603.0
145°	619.4	620.2	621.1	621.9	622.3	622.0	621.4	620.9	620.3	619.7	620.3
147.5°	635.5	636.1	636.6	637.2	637.5	637.3	636.8	636.3	635.9	635.4	635.9
150°	649.7	650.4	651.1	651.8	652.1	651.8	651.2	650.7	650.1	649.5	650.1
152.5°	662.7	663.4	664.1	664.8	665.2	664.8	664.0	663.1	662.3	661.5	662.3
155°	674.3	675.0	675.7	676.4	676.7	676.2	675.3	674.4	673.4	672.5	673.4
157.5°	684.3	685.1	685.9	686.7	687.1	686.6	685.7	684.8	683.9	683.0	683.9
160°	693.1	693.8	694.5	695.2	695.5	695.1	694.3	693.5	692.7	691.9	692.7
162.5°	701.0	701.8	702.7	703.5	703.9	703.4	702.3	701.3	700.2	699.2	700.2
165°	707.3	708.1	709.0	709.8	710.2	709.8	709.0	708.1	707.3	706.5	707.3
167.5°	713.0	713.8	714.7	715.5	715.9	715.4	714.3	713.3	712.2	711.2	712.2
170°	717.2	718.0	718.9	719.7	720.1	719.6	718.5	717.5	716.4	715.4	716.4
172.5°	720.4	721.2	722.0	722.8	723.2	722.7	721.6	720.6	719.5	718.5	719.5
175°	722.5	723.3	724.1	724.9	725.3	724.7	723.6	722.4	721.3	720.1	721.3
177.5°	723.0	723.8	724.6	725.4	725.8	725.3	724.2	723.2	722.1	721.1	722.1
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	1025.7	1020.5	1016.0	1016.8	1020.5	1017.5	1010.1	1000.4	996.7	992.2	996.7
5°	1087.4	1083.0	1074.0	1074.8	1072.6	1069.6	1057.7	1042.8	1042.8	1030.9	1029.4
7.5°	1148.4	1141.7	1135.8	1134.3	1126.1	1120.2	1109.7	1088.9	1080.7	1066.6	1058.4
10°	1216.9	1211.6	1205.0	1196.8	1192.3	1181.9	1164.8	1134.3	1119.4	1100.1	1085.9
12.5°	1286.0	1285.3	1270.4	1254.0	1253.3	1236.9	1225.0	1184.1	1164.0	1138.0	1104.5
15°	1329.9	1326.2	1318.0	1309.8	1312.1	1294.2	1267.4	1219.1	1205.7	1174.5	1138.8
17.5°	1329.2	1329.2	1326.9	1325.4	1323.2	1318.0	1303.1	1271.2	1249.6	1210.2	1176.7
20°	1286.8	1296.4	1298.7	1297.9	1305.4	1309.1	1308.3	1288.3	1271.2	1236.2	1202.0
22.5°	1202.0	1224.3	1234.0	1239.9	1255.5	1263.7	1283.1	1275.6	1271.2	1245.1	1216.1
25°	1123.1	1130.6	1159.6	1161.1	1182.6	1202.7	1222.1	1234.7	1251.1	1241.4	1216.9
27.5°	1021.2	1038.3	1059.2	1074.8	1079.3	1120.2	1152.1	1175.9	1213.1	1216.1	1207.9
30°	905.9	914.1	948.3	969.2	993.0	1022.7	1068.8	1109.7	1143.2	1173.7	1184.1
32.5°	765.4	798.8	818.9	844.2	865.0	917.8	974.4	1027.2	1065.9	1117.2	1139.5
35°	636.7	662.7	696.9	707.4	745.3	789.9	863.5	931.2	990.0	1042.1	1087.4
37.5°	530.3	551.2	587.6	604.0	626.3	683.6	745.3	829.3	900.0	964.0	1020.5
40°	457.4	473.1	500.6	505.8	524.4	576.4	626.3	705.1	798.8	885.1	946.9
42.5°	407.6	415.0	433.6	440.3	452.2	487.2	531.8	606.2	693.2	782.5	869.5
45°	371.9	377.1	388.3	394.2	409.1	424.7	461.2	520.7	589.1	679.1	772.8
47.5°	339.9	346.6	351.1	354.8	363.0	380.1	403.9	447.8	513.2	595.8	686.5
50°	313.1	315.4	323.6	324.3	329.5	340.7	363.0	389.8	441.8	508.8	596.5
52.5°	286.4	288.6	293.8	299.0	301.2	310.2	325.0	347.4	386.0	438.8	516.9
55°	259.6	262.6	267.8	271.5	273.7	281.2	290.1	311.7	342.1	379.3	443.3
57.5°	232.8	239.5	241.0	243.2	246.9	255.1	263.3	275.9	299.8	334.0	380.8
60°	207.5	209.8	215.0	217.2	220.9	225.4	235.8	245.5	262.6	289.3	331.7
62.5°	181.5	186.7	188.9	191.2	194.1	199.3	206.0	216.4	231.3	252.9	286.4
65°	159.2	159.9	164.4	167.4	170.3	174.0	180.7	190.4	199.3	219.4	244.0
67.5°	137.6	139.1	140.6	143.6	147.3	151.0	156.9	162.1	173.3	186.7	206.0
70°	116.8	116.8	120.5	122.7	122.0	126.4	130.9	136.9	145.0	157.7	173.3
72.5°	98.2	97.4	100.4	101.2	102.6	105.6	108.6	114.5	119.0	128.7	140.6
75°	78.1	79.6	81.1	81.1	83.3	85.5	88.5	91.5	96.7	102.6	111.6
77.5°	61.7	61.7	63.2	64.0	66.2	65.5	68.4	71.4	75.1	80.3	87.0
80°	45.4	46.9	46.9	46.9	47.6	48.3	51.3	53.6	55.8	59.5	62.5
82.5°	32.0	32.0	33.5	33.5	33.5	35.0	35.0	35.7	37.2	39.4	41.7
85°	20.1	20.1	20.1	20.8	20.1	20.8	22.3	21.6	22.3	23.8	23.8
87.5°	9.7	9.7	9.7	9.7	9.7	10.4	9.7	10.4	11.2	11.2	11.2
90°	13.7	13.4	13.2	13.1	12.8	12.2	11.7	11.1	10.5	9.6	8.6
92.5°	13.9	13.8	13.7	13.6	13.5	13.3	13.0	12.8	12.6	12.2	11.9
95°	22.7	22.8	22.9	23.0	22.7	22.1	21.6	21.0	20.4	19.6	18.8
97.5°	28.5	28.4	28.3	28.2	28.0	27.7	27.4	27.0	26.7	24.8	23.0
100°	34.6	34.3	34.1	34.0	33.5	32.6	31.7	30.7	29.8	27.8	25.8
102.5°	37.5	37.1	36.8	36.6	36.0	34.7	33.4	32.2	30.9	52.0	73.2
105°	38.8	38.4	37.9	37.7	37.1	35.8	34.5	33.2	31.9	63.6	95.4
107.5°	39.9	39.4	38.9	38.7	38.1	36.8	35.5	34.2	32.9	72.1	111.3
110°	40.4	39.9	39.4	39.2	45.0	56.6	68.3	79.9	91.5	125.1	158.7



TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	41.1	40.8	40.5	40.3	65.3	115.4	165.5	215.6	265.7	267.7	269.6
115°	59.6	68.0	76.3	80.5	107.4	161.2	215.1	268.9	322.7	319.8	316.9
117.5°	200.0	230.4	260.9	276.1	284.4	301.0	317.7	334.3	350.9	348.9	346.9
120°	350.4	366.1	381.8	389.6	388.9	387.5	386.1	384.7	383.3	381.2	379.1
122.5°	417.6	417.5	417.4	417.3	417.0	416.3	415.6	414.9	414.2	411.9	409.5
125°	446.4	446.0	445.7	445.5	445.1	444.3	443.5	442.7	441.9	439.7	437.5
127.5°	473.0	472.9	472.8	472.7	472.1	471.0	469.8	468.7	467.5	465.8	464.0
130°	497.5	497.6	497.7	497.8	497.2	495.9	494.6	493.4	492.1	490.8	489.5
132.5°	521.1	521.2	521.3	521.4	520.9	519.8	518.8	517.7	516.7	515.4	514.1
135°	543.8	544.0	544.3	544.4	543.8	542.7	541.5	540.4	539.2	538.1	537.1
137.5°	565.0	565.3	565.6	565.8	565.2	564.1	562.9	561.8	560.6	559.4	558.3
140°	584.8	585.3	585.9	586.2	585.7	584.6	583.6	582.5	581.5	580.2	579.0
142.5°	603.6	604.1	604.7	605.0	604.5	603.6	602.7	601.8	600.9	599.4	597.9
145°	620.9	621.4	622.0	622.3	621.9	621.1	620.2	619.4	618.6	616.6	614.7
147.5°	636.3	636.8	637.3	637.5	637.2	636.6	636.1	635.5	634.9	632.9	630.9
150°	650.7	651.2	651.8	652.1	651.8	651.1	650.4	649.7	649.0	647.1	645.3
152.5°	663.1	664.0	664.8	665.2	664.8	664.1	663.4	662.7	662.0	660.3	658.5
155°	674.4	675.3	676.2	676.7	676.4	675.7	675.0	674.3	673.6	672.2	670.8
157.5°	684.8	685.7	686.6	687.1	686.7	685.9	685.1	684.3	683.5	682.5	681.4
160°	693.5	694.3	695.1	695.5	695.2	694.5	693.8	693.1	692.4	691.7	691.0
162.5°	701.3	702.3	703.4	703.9	703.5	702.7	701.8	701.0	700.2	699.6	699.0
165°	708.1	709.0	709.8	710.2	709.8	709.0	708.1	707.3	706.5	706.1	705.8
167.5°	713.3	714.3	715.4	715.9	715.5	714.7	713.8	713.0	712.2	711.9	711.5
170°	717.5	718.5	719.6	720.1	719.7	718.9	718.0	717.2	716.4	716.2	716.0
172.5°	720.6	721.6	722.7	723.2	722.8	722.0	721.2	720.4	719.6	719.4	719.1
175°	722.4	723.6	724.7	725.3	724.9	724.1	723.3	722.5	721.7	721.5	721.2
177.5°	723.2	724.2	725.3	725.8	725.4	724.6	723.8	723.0	722.2	722.1	722.0
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	993.0	989.3	987.0	988.5	984.0	972.9	972.9	976.6	972.1	967.7	961.0
5°	1020.5	1013.1	1008.6	1007.8	997.4	979.6	975.9	972.1	962.5	952.1	940.9
7.5°	1047.3	1033.9	1026.4	1021.2	1006.4	983.3	973.6	965.5	949.8	934.2	920.1
10°	1069.6	1050.2	1041.3	1033.1	1013.8	984.8	969.2	954.3	934.2	914.1	896.3
12.5°	1087.4	1065.1	1054.0	1042.1	1018.3	980.3	961.0	937.2	917.1	890.3	872.5
15°	1117.2	1071.1	1060.7	1049.5	1025.0	972.9	949.1	922.3	894.8	859.1	839.7
17.5°	1141.0	1079.3	1078.5	1054.7	1022.7	969.9	933.5	898.5	868.8	833.1	802.6
20°	1155.1	1091.9	1080.0	1055.4	1015.3	949.8	911.9	873.2	841.2	798.1	767.6
22.5°	1167.0	1109.7	1078.5	1048.8	999.7	943.1	887.4	850.9	807.0	760.2	731.2
25°	1171.5	1113.5	1080.7	1046.5	988.5	923.8	860.6	821.2	772.1	729.7	690.2
27.5°	1172.2	1112.7	1072.6	1036.9	972.9	898.5	833.8	792.1	737.8	688.8	649.3
30°	1164.8	1104.5	1068.1	1029.4	958.0	875.5	801.1	755.0	696.9	647.8	606.9
32.5°	1142.5	1088.2	1058.4	1016.0	938.7	843.5	769.8	718.5	657.5	609.2	569.7
35°	1105.3	1068.1	1035.4	995.9	913.4	813.7	738.6	678.3	616.6	570.5	533.3
37.5°	1059.2	1039.1	1008.6	969.9	884.4	786.9	703.6	636.7	575.0	530.3	493.9
40°	996.7	1001.9	972.1	937.2	850.2	750.5	658.3	594.3	536.3	494.6	458.9
42.5°	929.0	950.6	933.5	900.0	812.2	710.3	624.8	554.1	497.6	454.5	424.7
45°	856.1	893.3	882.9	858.3	772.8	667.9	577.2	508.8	458.9	417.3	391.2
47.5°	776.5	829.3	829.3	811.5	728.9	625.5	536.3	466.4	417.3	387.5	362.2
50°	695.5	755.0	764.6	752.7	679.8	577.2	486.4	423.2	380.8	351.8	333.2
52.5°	610.7	679.8	697.7	691.7	627.8	531.1	445.5	383.8	345.1	319.8	303.5
55°	529.6	609.9	629.3	631.5	572.0	480.5	400.2	345.9	308.7	291.6	277.4
57.5°	453.0	530.3	551.9	555.6	515.5	434.4	357.8	310.2	276.7	262.6	251.4
60°	387.5	452.2	480.5	488.7	453.7	380.8	318.3	272.2	246.9	233.6	223.1
62.5°	334.0	386.0	415.8	418.0	402.4	334.0	277.4	238.8	217.2	205.3	200.1
65°	281.9	328.8	346.6	355.5	342.9	289.3	239.5	207.5	190.4	180.0	174.8
67.5°	240.2	270.0	284.9	296.8	284.1	244.0	203.8	177.8	165.1	154.7	151.7
70°	197.1	221.7	232.8	244.7	233.6	203.1	174.0	150.2	139.1	130.9	127.2
72.5°	157.7	177.0	187.4	194.9	188.2	162.9	139.1	122.7	114.5	108.6	106.4
75°	125.0	138.3	144.3	149.5	146.5	127.2	112.3	98.9	91.5	86.3	84.8
77.5°	95.2	104.9	111.6	113.1	109.3	96.7	84.0	75.9	69.9	66.9	65.5
80°	67.7	73.6	77.4	79.6	75.9	70.7	61.7	55.8	50.6	46.9	46.1
82.5°	45.4	48.3	51.3	50.6	49.1	44.6	39.4	36.4	34.2	31.2	31.2
85°	26.0	26.8	28.3	29.0	28.3	25.3	22.3	20.8	19.3	17.1	17.1
87.5°	11.2	11.9	11.9	12.6	11.2	11.2	9.7	8.2	8.2	7.4	6.7
90°	7.7	6.8	6.3	5.7	4.4	3.1	1.8	0.5	1.8	3.1	4.4
92.5°	11.5	11.2	11.0	11.2	11.7	12.2	12.6	13.1	12.6	12.2	11.7
95°	17.9	17.1	16.7	18.6	22.5	26.3	30.2	34.0	30.2	26.3	22.5
97.5°	21.1	19.2	18.3	23.1	32.6	42.1	51.7	61.2	51.7	42.1	32.6
100°	23.9	21.9	20.9	28.9	44.8	60.7	76.7	92.6	76.7	60.7	44.8
102.5°	94.3	115.4	126.0	126.1	126.4	126.6	126.9	127.1	126.9	126.6	126.4
105°	127.1	158.8	174.7	173.0	169.5	166.0	162.5	159.0	162.5	166.0	169.5
107.5°	150.4	189.6	209.2	207.7	204.8	201.9	199.0	196.1	199.0	201.9	204.8
110°	192.2	225.8	242.6	241.4	239.0	236.5	234.1	231.7	234.1	236.5	239.0

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	271.6	273.5	274.5	273.5	271.4	269.3	267.2	265.1	267.2	269.3	271.4
115°	314.0	311.1	309.6	308.6	306.6	304.7	302.7	300.7	302.7	304.7	306.6
117.5°	345.0	343.0	342.0	340.8	338.5	336.2	333.8	331.5	333.8	336.2	338.5
120°	377.0	374.9	373.9	373.0	371.3	369.6	367.8	366.1	367.8	369.6	371.3
122.5°	407.2	404.9	403.7	402.8	400.9	399.0	397.2	395.3	397.2	399.0	400.9
125°	435.3	433.1	432.0	431.2	429.7	428.2	426.7	425.2	426.7	428.2	429.7
127.5°	462.3	460.6	459.7	458.9	457.2	455.6	453.9	452.3	453.9	455.6	457.2
130°	488.2	486.9	486.3	485.4	483.5	481.7	479.8	478.0	479.8	481.7	483.5
132.5°	512.8	511.5	510.9	510.1	508.6	507.1	505.6	504.1	505.6	507.1	508.6
135°	536.0	534.9	534.4	533.5	531.6	529.8	527.9	526.1	527.9	529.8	531.6
137.5°	557.1	556.0	555.4	554.7	553.3	551.9	550.5	549.1	550.5	551.9	553.3
140°	577.7	576.4	575.8	575.3	574.4	573.5	572.5	571.6	572.5	573.5	574.4
142.5°	596.4	594.9	594.1	593.7	592.9	592.0	591.2	590.4	591.2	592.0	592.9
145°	612.7	610.8	609.8	609.9	610.0	610.1	610.2	610.3	610.2	610.1	610.0
147.5°	629.0	627.0	626.0	626.2	626.5	626.8	627.2	627.5	627.2	626.8	626.5
150°	643.4	641.5	640.6	641.0	641.8	642.7	643.5	644.3	643.5	642.7	641.8
152.5°	656.8	655.1	654.2	654.7	655.6	656.5	657.5	658.4	657.5	656.5	655.6
155°	669.4	668.0	667.3	667.8	668.9	669.9	671.0	672.0	671.0	669.9	668.9
157.5°	680.4	679.3	678.8	679.3	680.2	681.1	682.1	683.0	682.1	681.1	680.2
160°	690.3	689.6	689.2	689.6	690.3	691.0	691.7	692.4	691.7	691.0	690.3
162.5°	698.5	697.9	697.6	697.9	698.6	699.3	700.0	700.7	700.0	699.3	698.6
165°	705.4	705.1	704.9	705.3	706.0	706.7	707.4	708.1	707.4	706.7	706.0
167.5°	711.2	710.9	710.7	711.0	711.7	712.4	713.1	713.8	713.1	712.4	711.7
170°	715.7	715.5	715.4	715.7	716.4	717.1	717.8	718.5	717.8	717.1	716.4
172.5°	718.9	718.6	718.5	718.9	719.6	720.3	721.0	721.7	721.0	720.3	719.6
175°	721.0	720.7	720.6	721.0	721.8	722.7	723.5	724.3	723.5	722.7	721.8
177.5°	721.9	721.8	721.7	722.1	722.9	723.7	724.5	725.3	724.5	723.7	722.9
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	957.3	961.0	960.2	952.8	944.6	937.9	925.3	926.8	922.3	923.1	927.5
5°	933.5	933.5	930.5	920.1	906.7	899.3	885.1	881.4	872.5	871.7	871.0
7.5°	908.2	904.5	900.7	885.9	869.5	857.6	838.3	833.8	824.9	818.9	815.9
10°	878.4	873.2	865.8	848.7	828.6	813.7	793.6	787.7	770.6	763.1	758.7
12.5°	845.7	842.7	830.8	816.7	784.0	767.6	738.6	744.5	727.4	712.6	710.3
15°	813.0	801.8	795.1	772.1	732.6	725.2	702.1	690.2	674.6	662.7	662.7
17.5°	781.0	763.9	749.0	724.5	695.5	674.6	657.5	651.6	632.2	620.3	618.1
20°	738.6	719.3	715.5	680.6	660.5	637.4	621.1	606.2	592.1	586.9	583.1
22.5°	698.4	676.1	670.2	640.4	620.3	597.3	580.9	570.5	560.1	556.4	549.7
25°	655.3	641.9	633.0	601.0	578.7	557.1	545.9	538.5	528.8	528.1	523.6
27.5°	613.6	601.0	592.1	561.6	545.2	525.1	516.2	508.0	502.8	500.6	498.3
30°	577.9	563.8	553.4	531.1	511.0	494.6	487.2	482.0	479.0	475.3	474.5
32.5°	538.5	530.3	516.2	499.1	483.5	467.8	463.4	459.7	455.2	453.7	453.0
35°	505.0	493.9	485.0	465.6	458.9	445.5	440.3	437.4	431.4	429.9	428.4
37.5°	472.3	461.9	452.2	440.3	427.7	420.2	417.3	412.8	409.8	410.6	409.1
40°	439.6	431.4	424.0	411.3	403.9	400.2	394.2	389.8	388.3	389.0	388.3
42.5°	407.6	400.2	395.7	386.0	378.6	374.9	371.2	366.7	368.9	368.9	371.2
45°	378.6	371.9	368.9	361.5	357.0	351.1	347.4	346.6	349.6	348.8	348.8
47.5°	348.8	346.6	342.9	336.2	330.2	326.5	325.8	325.8	328.8	330.2	329.5
50°	325.8	321.3	316.9	311.7	307.2	305.7	303.5	305.0	307.9	307.9	309.4
52.5°	296.8	293.8	292.3	287.8	284.9	284.9	284.9	285.6	287.8	290.1	289.3
55°	271.5	269.3	267.8	265.5	261.8	262.6	261.8	263.3	265.5	267.8	269.3
57.5°	244.7	244.0	242.5	238.8	238.8	238.0	240.2	241.0	244.7	246.2	248.4
60°	220.9	218.7	218.7	215.7	215.7	215.7	217.9	220.2	223.1	223.9	225.4
62.5°	195.6	195.6	194.9	192.6	192.6	194.9	195.6	198.6	200.1	200.1	202.3
65°	171.8	171.1	170.3	171.1	171.8	171.8	174.0	175.5	177.0	177.8	178.5
67.5°	148.0	147.3	148.8	148.0	149.5	152.5	151.7	154.0	156.2	156.2	156.9
70°	125.7	127.2	126.4	127.9	127.2	128.7	130.9	131.7	131.7	132.4	134.6
72.5°	104.9	104.9	104.9	104.1	104.9	106.4	107.9	108.6	110.1	110.8	113.1
75°	84.8	84.8	83.3	84.8	84.8	86.3	87.8	87.8	87.8	89.3	91.5
77.5°	64.0	64.7	64.0	65.5	65.5	66.2	67.7	66.9	68.4	69.2	69.9
80°	46.9	46.1	46.1	46.1	46.9	46.9	48.3	49.1	49.1	51.3	49.8
82.5°	29.8	30.5	29.8	30.5	30.5	31.2	30.5	31.2	32.0	33.5	32.7
85°	17.1	16.4	16.4	17.1	16.4	16.4	17.1	16.4	17.1	16.4	17.1
87.5°	6.7	6.0	6.0	6.0	6.0	5.2	5.2	4.5	4.5	4.5	3.7
90°	5.7	6.3	6.8	7.7	8.6	9.6	10.5	11.1	11.7	12.2	12.8
92.5°	11.2	11.0	11.2	11.5	11.9	12.2	12.6	12.8	13.0	13.3	13.5
95°	18.6	16.7	17.1	17.9	18.8	19.6	20.4	21.0	21.6	22.1	22.7
97.5°	23.1	18.3	19.2	21.1	23.0	24.8	26.7	27.0	27.4	27.7	28.0
100°	28.9	20.9	21.9	23.9	25.8	27.8	29.8	30.7	31.7	32.6	33.5
102.5°	126.1	126.0	115.4	94.3	73.2	52.0	30.9	32.2	33.4	34.7	36.0
105°	173.0	174.7	158.8	127.1	95.4	63.6	31.9	33.2	34.5	35.8	37.1
107.5°	207.7	209.2	189.6	150.4	111.3	72.1	32.9	34.2	35.5	36.8	38.1
110°	241.4	242.6	225.8	192.2	158.7	125.1	91.5	79.9	68.3	56.6	45.0

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	273.5	274.5	273.5	271.6	269.6	267.7	265.7	215.6	165.5	115.4	65.3
115°	308.6	309.6	311.1	314.0	316.9	319.8	322.7	268.9	215.1	161.2	107.4
117.5°	340.8	342.0	343.0	345.0	346.9	348.9	350.9	334.3	317.7	301.0	284.4
120°	373.0	373.9	374.9	377.0	379.1	381.2	383.3	384.7	386.1	387.5	388.9
122.5°	402.8	403.7	404.9	407.2	409.5	411.9	414.2	414.9	415.6	416.3	417.0
125°	431.2	432.0	433.1	435.3	437.5	439.7	441.9	442.7	443.5	444.3	445.1
127.5°	458.9	459.7	460.6	462.3	464.0	465.8	467.5	468.7	469.8	471.0	472.1
130°	485.4	486.3	486.9	488.2	489.5	490.8	492.1	493.4	494.6	495.9	497.2
132.5°	510.1	510.9	511.5	512.8	514.1	515.4	516.7	517.7	518.8	519.8	520.9
135°	533.5	534.4	534.9	536.0	537.1	538.1	539.2	540.4	541.5	542.7	543.8
137.5°	554.7	555.4	556.0	557.1	558.3	559.4	560.6	561.8	562.9	564.1	565.2
140°	575.3	575.8	576.4	577.7	579.0	580.2	581.5	582.5	583.6	584.6	585.7
142.5°	593.7	594.1	594.9	596.4	597.9	599.4	600.9	601.8	602.7	603.6	604.5
145°	609.9	609.8	610.8	612.7	614.7	616.6	618.6	619.4	620.2	621.1	621.9
147.5°	626.2	626.0	627.0	629.0	630.9	632.9	634.9	635.5	636.1	636.6	637.2
150°	641.0	640.6	641.5	643.4	645.3	647.1	649.0	649.7	650.4	651.1	651.8
152.5°	654.7	654.2	655.1	656.8	658.5	660.3	662.0	662.7	663.4	664.1	664.8
155°	667.8	667.3	668.0	669.4	670.8	672.2	673.6	674.3	675.0	675.7	676.4
157.5°	679.3	678.8	679.3	680.4	681.4	682.5	683.5	684.3	685.1	685.9	686.7
160°	689.6	689.2	689.6	690.3	691.0	691.7	692.4	693.1	693.8	694.5	695.2
162.5°	697.9	697.6	697.9	698.5	699.0	699.6	700.2	701.0	701.8	702.7	703.5
165°	705.3	704.9	705.1	705.4	705.8	706.1	706.5	707.3	708.1	709.0	709.8
167.5°	711.0	710.7	710.9	711.2	711.5	711.9	712.2	713.0	713.8	714.7	715.5
170°	715.7	715.4	715.5	715.7	716.0	716.2	716.4	717.2	718.0	718.9	719.7
172.5°	718.9	718.5	718.6	718.9	719.1	719.4	719.6	720.4	721.2	722.0	722.8
175°	721.0	720.6	720.7	721.0	721.2	721.5	721.7	722.5	723.3	724.1	724.9
177.5°	722.1	721.7	721.8	721.9	722.0	722.1	722.2	723.0	723.8	724.6	725.4
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	922.3	924.5	919.3	917.8	919.3	914.1	915.6	917.1	917.1	919.3	920.8
5°	868.8	865.8	860.6	859.1	857.6	859.8	858.3	860.6	861.3	866.5	867.3
7.5°	815.9	811.5	807.0	802.6	801.1	797.4	801.1	801.1	806.3	804.8	808.5
10°	753.5	752.7	746.8	744.5	741.6	735.6	743.8	741.6	745.3	752.0	753.5
12.5°	707.4	699.2	702.9	692.5	696.2	690.2	691.0	691.0	696.9	697.7	696.2
15°	663.5	656.8	647.1	642.6	640.4	637.4	647.1	647.8	643.4	653.8	650.1
17.5°	618.8	618.8	609.9	607.7	601.7	604.7	603.2	604.0	602.5	609.9	613.6
20°	580.2	576.4	573.5	574.2	566.8	565.3	563.8	565.3	570.5	575.7	577.2
22.5°	548.9	546.7	539.3	540.7	534.8	537.0	535.5	539.3	540.0	540.0	545.2
25°	519.2	516.2	516.9	514.0	511.7	511.7	509.5	511.7	514.7	516.2	516.9
27.5°	496.9	494.6	490.9	488.7	490.2	486.4	489.4	491.7	491.7	490.2	491.7
30°	470.1	471.6	471.6	464.1	467.1	465.6	467.8	469.3	469.3	470.1	468.6
32.5°	452.2	447.8	447.0	446.3	446.3	443.3	443.3	445.5	446.3	447.0	449.3
35°	428.4	428.4	424.7	426.9	424.0	424.7	424.0	424.7	426.2	424.0	426.2
37.5°	406.9	407.6	406.1	407.6	408.3	406.9	405.4	408.3	406.9	406.9	405.4
40°	388.3	387.5	388.3	388.3	388.3	389.0	387.5	387.5	387.5	386.0	384.5
42.5°	372.6	368.2	369.7	370.4	368.2	368.2	368.9	368.2	370.4	365.9	365.9
45°	350.3	348.8	349.6	349.6	351.1	348.8	350.3	351.1	348.8	348.1	346.6
47.5°	330.2	331.7	330.2	331.7	331.7	333.2	330.2	331.0	331.7	328.8	326.5
50°	310.2	310.2	312.4	311.7	312.4	310.9	310.9	310.2	310.9	309.4	307.2
52.5°	291.6	289.3	293.1	292.3	291.6	290.8	290.1	290.8	289.3	287.8	287.8
55°	268.5	268.5	270.7	271.5	271.5	270.0	268.5	269.3	268.5	267.8	267.0
57.5°	249.9	246.9	248.4	249.2	249.2	246.9	248.4	246.9	246.9	247.7	245.5
60°	226.1	226.1	224.6	226.9	226.9	225.4	225.4	226.1	224.6	223.9	223.1
62.5°	200.8	201.6	203.8	204.5	205.3	203.8	202.3	203.1	203.1	200.8	201.6
65°	179.3	180.7	183.7	183.0	181.5	182.2	180.7	181.5	179.3	180.0	177.8
67.5°	158.4	157.7	158.4	158.4	159.9	159.2	157.7	157.7	156.9	159.2	156.9
70°	136.1	136.1	136.1	136.1	136.9	137.6	136.1	134.6	135.4	133.9	133.1
72.5°	113.1	113.8	113.1	114.5	112.3	113.8	113.8	113.1	112.3	112.3	112.3
75°	91.5	93.0	90.7	91.5	90.7	92.2	91.5	91.5	90.0	89.3	90.0
77.5°	69.9	70.7	69.2	69.9	69.2	69.9	69.9	69.2	69.2	69.2	69.2
80°	49.8	50.6	49.8	49.1	48.3	49.8	48.3	49.1	49.8	49.1	50.6
82.5°	32.0	32.0	31.2	32.0	30.5	30.5	31.2	31.2	30.5	32.0	30.5
85°	15.6	15.6	17.1	15.6	14.9	14.9	14.9	15.6	14.9	16.4	15.6
87.5°	3.7	3.0	3.7	3.7	3.0	3.0	3.7	3.0	3.7	4.5	3.0
90°	13.1	13.2	13.4	13.7	13.9	14.1	13.9	13.7	13.4	13.2	13.1
92.5°	13.6	13.7	13.8	13.9	14.0	14.1	14.0	13.9	13.8	13.7	13.6
95°	23.0	22.9	22.8	22.7	22.6	22.5	22.6	22.7	22.8	22.9	23.0
97.5°	28.2	28.3	28.4	28.5	28.7	28.8	28.7	28.5	28.4	28.3	28.2
100°	34.0	34.1	34.3	34.6	34.8	35.0	34.8	34.6	34.3	34.1	34.0
102.5°	36.6	36.8	37.1	37.5	37.8	38.2	37.8	37.5	37.1	36.8	36.6
105°	37.7	37.9	38.4	38.8	39.3	39.7	39.3	38.8	38.4	37.9	37.7
107.5°	38.7	38.9	39.4	39.9	40.3	40.8	40.3	39.9	39.4	38.9	38.7
110°	39.2	39.4	39.9	40.4	40.8	41.3	40.8	40.4	39.9	39.4	39.2

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	40.3	40.5	40.8	41.1	41.5	41.8	41.5	41.1	40.8	40.5	40.3
115°	80.5	76.3	68.0	59.6	51.3	42.9	51.3	59.6	68.0	76.3	80.5
117.5°	276.1	260.9	230.4	200.0	169.5	139.1	169.5	200.0	230.4	260.9	276.1
120°	389.6	381.8	366.1	350.4	334.7	319.0	334.7	350.4	366.1	381.8	389.6
122.5°	417.3	417.4	417.5	417.6	417.7	417.8	417.7	417.6	417.5	417.4	417.3
125°	445.5	445.7	446.0	446.4	446.7	447.1	446.7	446.4	446.0	445.7	445.5
127.5°	472.7	472.8	472.9	473.0	473.2	473.3	473.2	473.0	472.9	472.8	472.7
130°	497.8	497.7	497.6	497.5	497.4	497.3	497.4	497.5	497.6	497.7	497.8
132.5°	521.4	521.3	521.2	521.1	521.0	520.9	521.0	521.1	521.2	521.3	521.4
135°	544.4	544.3	544.0	543.8	543.5	543.3	543.5	543.8	544.0	544.3	544.4
137.5°	565.8	565.6	565.3	565.0	564.6	564.3	564.6	565.0	565.3	565.6	565.8
140°	586.2	585.9	585.3	584.8	584.2	583.6	584.2	584.8	585.3	585.9	586.2
142.5°	605.0	604.7	604.1	603.6	603.0	602.4	603.0	603.6	604.1	604.7	605.0
145°	622.3	622.0	621.4	620.9	620.3	619.7	620.3	620.9	621.4	622.0	622.3
147.5°	637.5	637.3	636.8	636.3	635.9	635.4	635.9	636.3	636.8	637.3	637.5
150°	652.1	651.8	651.2	650.7	650.1	649.5	650.1	650.7	651.2	651.8	652.1
152.5°	665.2	664.8	664.0	663.1	662.3	661.5	662.3	663.1	664.0	664.8	665.2
155°	676.7	676.2	675.3	674.4	673.4	672.5	673.4	674.4	675.3	676.2	676.7
157.5°	687.1	686.6	685.7	684.8	683.9	683.0	683.9	684.8	685.7	686.6	687.1
160°	695.5	695.1	694.3	693.5	692.7	691.9	692.7	693.5	694.3	695.1	695.5
162.5°	703.9	703.4	702.3	701.3	700.2	699.2	700.2	701.3	702.3	703.4	703.9
165°	710.2	709.8	709.0	708.1	707.3	706.5	707.3	708.1	709.0	709.8	710.2
167.5°	715.9	715.4	714.3	713.3	712.2	711.2	712.2	713.3	714.3	715.4	715.9
170°	720.1	719.6	718.5	717.5	716.4	715.4	716.4	717.5	718.5	719.6	720.1
172.5°	723.2	722.7	721.6	720.6	719.5	718.5	719.5	720.6	721.6	722.7	723.2
175°	725.3	724.7	723.6	722.4	721.3	720.1	721.3	722.4	723.6	724.7	725.3
177.5°	725.8	725.3	724.2	723.2	722.1	721.1	722.1	723.2	724.2	725.3	725.8
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7	967.7
2.5°	918.6	924.5	922.3	914.1	923.8	923.8	930.5	930.5	938.7	941.6	946.1
5°	866.5	871.0	874.7	871.0	877.7	888.1	894.0	899.3	910.4	914.9	921.6
7.5°	810.7	818.9	822.6	822.6	833.8	845.7	857.6	865.0	880.7	886.6	893.3
10°	756.4	766.1	773.6	772.8	791.4	798.8	813.7	830.8	846.4	855.4	865.0
12.5°	699.2	704.4	714.8	729.7	734.1	747.5	764.6	786.2	814.5	822.6	836.8
15°	651.6	665.7	673.9	680.6	691.0	703.6	722.2	743.1	771.3	789.2	804.0
17.5°	611.4	630.0	635.2	633.7	647.1	666.4	688.0	703.6	728.9	750.5	764.6
20°	578.7	586.1	595.0	598.8	609.2	630.0	650.8	668.7	689.5	706.6	723.0
22.5°	545.9	551.9	559.3	566.0	574.2	586.1	606.2	628.5	648.6	665.0	683.6
25°	519.2	522.9	529.6	534.8	543.7	551.9	566.0	590.6	614.4	624.0	640.4
27.5°	493.1	496.1	500.6	506.5	511.0	519.2	531.8	551.9	576.4	586.1	608.4
30°	470.1	472.3	476.8	479.7	482.0	491.7	501.3	516.9	535.5	548.9	565.3
32.5°	448.5	450.7	455.2	455.9	458.9	464.1	473.1	487.2	503.6	514.7	528.8
35°	424.7	426.2	430.7	432.1	434.4	438.8	445.5	455.9	470.8	479.0	491.7
37.5°	406.1	405.4	408.3	410.6	413.6	415.8	418.0	428.4	439.6	447.0	456.7
40°	386.0	384.5	385.3	388.3	389.8	392.7	392.7	403.1	410.6	416.5	424.0
42.5°	365.9	365.2	363.7	365.2	366.7	367.4	368.2	375.6	383.1	388.3	396.4
45°	345.9	345.1	343.6	344.4	344.4	345.9	348.1	351.1	356.3	360.7	365.2
47.5°	327.3	325.8	323.6	322.8	324.3	324.3	324.3	327.3	332.5	334.0	338.4
50°	307.9	305.7	302.7	301.2	301.2	300.5	302.0	302.7	307.2	308.7	312.4
52.5°	287.1	285.6	282.6	279.7	280.4	278.9	279.7	280.4	281.9	284.1	286.4
55°	266.3	263.3	261.1	260.3	258.1	258.1	255.9	258.8	258.1	258.8	261.8
57.5°	246.2	243.2	239.5	238.0	235.8	235.0	233.6	232.8	233.6	235.8	238.0
60°	222.4	220.9	218.7	216.4	215.0	212.7	211.2	211.2	210.5	210.5	211.2
62.5°	199.3	198.6	195.6	194.9	193.4	191.9	189.7	188.2	188.2	189.7	190.4
65°	177.0	176.3	174.0	173.3	169.6	168.1	167.4	166.6	165.1	165.1	165.1
67.5°	156.2	154.0	154.0	150.2	147.3	145.8	144.3	143.6	143.6	143.6	144.3
70°	133.1	133.1	130.9	128.7	125.7	126.4	124.2	122.0	122.0	120.5	121.2
72.5°	110.8	110.1	107.9	107.1	104.9	102.6	101.2	102.6	100.4	99.7	100.4
75°	89.3	88.5	87.0	85.5	86.3	84.0	81.8	81.1	81.1	79.6	79.6
77.5°	68.4	69.9	66.9	66.2	64.7	63.2	62.5	61.7	61.7	61.7	63.2
80°	47.6	48.3	48.3	46.9	47.6	45.4	45.4	45.4	43.1	43.9	44.6
82.5°	30.5	30.5	29.8	30.5	29.8	29.8	29.0	29.0	28.3	28.3	29.0
85°	17.1	16.4	15.6	17.1	16.4	16.4	15.6	15.6	15.6	15.6	15.6
87.5°	3.7	4.5	4.5	4.5	4.5	5.2	5.2	5.2	6.0	6.0	6.0
90°	12.8	12.2	11.7	11.1	10.5	9.6	8.6	7.7	6.8	6.3	5.7
92.5°	13.5	13.3	13.0	12.8	12.6	12.2	11.9	11.5	11.2	11.0	11.2
95°	22.7	22.1	21.6	21.0	20.4	19.6	18.8	17.9	17.1	16.7	18.6
97.5°	28.0	27.7	27.4	27.0	26.7	24.8	23.0	21.1	19.2	18.3	23.1
100°	33.5	32.6	31.7	30.7	29.8	27.8	25.8	23.9	21.9	20.9	28.9
102.5°	36.0	34.7	33.4	32.2	30.9	52.0	73.2	94.3	115.4	126.0	126.1
105°	37.1	35.8	34.5	33.2	31.9	63.6	95.4	127.1	158.8	174.7	173.0
107.5°	38.1	36.8	35.5	34.2	32.9	72.1	111.3	150.4	189.6	209.2	207.7
110°	45.0	56.6	68.3	79.9	91.5	125.1	158.7	192.2	225.8	242.6	241.4

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CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	65.3	115.4	165.5	215.6	265.7	267.7	269.6	271.6	273.5	274.5	273.5
115°	107.4	161.2	215.1	268.9	322.7	319.8	316.9	314.0	311.1	309.6	308.6
117.5°	284.4	301.0	317.7	334.3	350.9	348.9	346.9	345.0	343.0	342.0	340.8
120°	388.9	387.5	386.1	384.7	383.3	381.2	379.1	377.0	374.9	373.9	373.0
122.5°	417.0	416.3	415.6	414.9	414.2	411.9	409.5	407.2	404.9	403.7	402.8
125°	445.1	444.3	443.5	442.7	441.9	439.7	437.5	435.3	433.1	432.0	431.2
127.5°	472.1	471.0	469.8	468.7	467.5	465.8	464.0	462.3	460.6	459.7	458.9
130°	497.2	495.9	494.6	493.4	492.1	490.8	489.5	488.2	486.9	486.3	485.4
132.5°	520.9	519.8	518.8	517.7	516.7	515.4	514.1	512.8	511.5	510.9	510.1
135°	543.8	542.7	541.5	540.4	539.2	538.1	537.1	536.0	534.9	534.4	533.5
137.5°	565.2	564.1	562.9	561.8	560.6	559.4	558.3	557.1	556.0	555.4	554.7
140°	585.7	584.6	583.6	582.5	581.5	580.2	579.0	577.7	576.4	575.8	575.3
142.5°	604.5	603.6	602.7	601.8	600.9	599.4	597.9	596.4	594.9	594.1	593.7
145°	621.9	621.1	620.2	619.4	618.6	616.6	614.7	612.7	610.8	609.8	609.9
147.5°	637.2	636.6	636.1	635.5	634.9	632.9	630.9	629.0	627.0	626.0	626.2
150°	651.8	651.1	650.4	649.7	649.0	647.1	645.3	643.4	641.5	640.6	641.0
152.5°	664.8	664.1	663.4	662.7	662.0	660.3	658.5	656.8	655.1	654.2	654.7
155°	676.4	675.7	675.0	674.3	673.6	672.2	670.8	669.4	668.0	667.3	667.8
157.5°	686.7	685.9	685.1	684.3	683.5	682.5	681.4	680.4	679.3	678.8	679.3
160°	695.2	694.5	693.8	693.1	692.4	691.7	691.0	690.3	689.6	689.2	689.6
162.5°	703.5	702.7	701.8	701.0	700.2	699.6	699.0	698.5	697.9	697.6	697.9
165°	709.8	709.0	708.1	707.3	706.5	706.1	705.8	705.4	705.1	704.9	705.3
167.5°	715.5	714.7	713.8	713.0	712.2	711.9	711.5	711.2	710.9	710.7	711.0
170°	719.7	718.9	718.0	717.2	716.4	716.2	716.0	715.7	715.5	715.4	715.7
172.5°	722.8	722.0	721.2	720.4	719.6	719.4	719.1	718.9	718.6	718.5	718.9
175°	724.9	724.1	723.3	722.5	721.7	721.5	721.2	721.0	720.7	720.6	721.0
177.5°	725.4	724.6	723.8	723.0	722.2	722.1	722.0	721.9	721.8	721.7	722.1
180°	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7	722.7

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	967.7	967.7	967.7	967.7
2.5°	949.8	949.8	961.0	972.9
5°	929.0	934.2	952.1	968.4
7.5°	908.9	917.8	940.2	961.0
10°	884.4	896.3	923.8	948.3
12.5°	860.6	871.7	903.7	931.2
15°	827.1	841.2	875.5	909.7
17.5°	793.6	807.8	849.4	889.6
20°	754.2	772.8	819.7	873.2
22.5°	717.8	740.8	792.9	836.0
25°	677.6	713.3	761.6	817.4
27.5°	641.9	677.6	726.7	783.2
30°	601.7	638.2	688.8	740.8
32.5°	563.1	596.5	645.6	709.6
35°	522.9	554.9	602.5	667.2
37.5°	486.4	517.7	569.7	629.3
40°	450.7	483.5	528.1	587.6
42.5°	417.3	446.3	486.4	545.9
45°	386.8	407.6	444.8	500.6
47.5°	354.8	373.4	407.6	463.4
50°	325.0	340.7	370.4	422.5
52.5°	296.0	309.4	336.9	378.6
55°	270.0	282.6	302.7	343.6
57.5°	243.2	252.9	272.2	305.0
60°	217.2	226.1	241.7	268.5
62.5°	191.2	198.6	213.5	235.0
65°	168.1	174.0	185.2	203.8
67.5°	145.8	149.5	158.4	173.3
70°	124.2	127.2	134.6	146.5
72.5°	101.2	104.1	112.3	120.5
75°	81.8	82.6	88.5	95.2
77.5°	64.0	63.2	67.7	72.9
80°	43.9	46.1	49.8	52.1
82.5°	29.8	30.5	32.0	33.5
85°	16.4	17.1	17.1	19.3
87.5°	6.7	7.4	7.4	8.2
90°	4.4	3.1	1.8	0.5
92.5°	11.7	12.2	12.6	13.1
95°	22.5	26.3	30.2	34.0
97.5°	32.6	42.1	51.7	61.2
100°	44.8	60.7	76.7	92.6
102.5°	126.4	126.6	126.9	127.1
105°	169.5	166.0	162.5	159.0
107.5°	204.8	201.9	199.0	196.1
110°	239.0	236.5	234.1	231.7

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	271.4	269.3	267.2	265.1
115°	306.6	304.7	302.7	300.7
117.5°	338.5	336.2	333.8	331.5
120°	371.3	369.6	367.8	366.1
122.5°	400.9	399.0	397.2	395.3
125°	429.7	428.2	426.7	425.2
127.5°	457.2	455.6	453.9	452.3
130°	483.5	481.7	479.8	478.0
132.5°	508.6	507.1	505.6	504.1
135°	531.6	529.8	527.9	526.1
137.5°	553.3	551.9	550.5	549.1
140°	574.4	573.5	572.5	571.6
142.5°	592.9	592.0	591.2	590.4
145°	610.0	610.1	610.2	610.3
147.5°	626.5	626.8	627.2	627.5
150°	641.8	642.7	643.5	644.3
152.5°	655.6	656.5	657.5	658.4
155°	668.9	669.9	671.0	672.0
157.5°	680.2	681.1	682.1	683.0
160°	690.3	691.0	691.7	692.4
162.5°	698.6	699.3	700.0	700.7
165°	706.0	706.7	707.4	708.1
167.5°	711.7	712.4	713.1	713.8
170°	716.4	717.1	717.8	718.5
172.5°	719.6	720.3	721.0	721.7
175°	721.8	722.7	723.5	724.3
177.5°	722.9	723.7	724.5	725.3
180°	722.7	722.7	722.7	722.7

TEST NUMBER: P998505

CATALOG NUMBER: SA2XXDIP-B485D530UB2750-4F0-XX-W2A-A_3000K

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	15.34	16.18	16.31	17.15	18.42	12.84	13.67	13.80	14.64	15.91
	3H	16.15	16.90	17.13	17.88	19.17	14.18	14.92	15.15	15.91	17.20
	4H	16.32	17.02	17.31	18.01	19.31	14.64	15.34	15.63	16.33	17.63
	6H	16.37	17.01	17.36	18.00	19.32	14.95	15.59	15.95	16.58	17.90
	8H	16.34	16.96	17.35	17.97	19.28	15.03	15.64	16.03	16.65	17.96
	12H	16.31	16.89	17.31	17.89	19.23	15.07	15.66	16.08	16.66	17.99
4H	2H	15.38	16.08	16.38	17.07	18.37	13.28	13.98	14.27	14.97	16.27
	3H	16.36	16.94	17.36	17.96	19.27	14.74	15.32	15.74	16.34	17.65
	4H	16.64	17.17	17.65	18.18	19.52	15.27	15.81	16.28	16.81	18.15
	6H	16.76	17.22	17.79	18.25	19.59	15.65	16.11	16.67	17.14	18.47
	8H	16.76	17.19	17.78	18.21	19.56	15.76	16.19	16.78	17.21	18.56
	12H	16.73	17.11	17.77	18.15	19.51	15.81	16.20	16.86	17.24	18.60
8H	4H	16.64	17.07	17.67	18.09	19.44	15.41	15.84	16.43	16.86	18.21
	6H	16.82	17.17	17.87	18.24	19.59	15.85	16.20	16.89	17.26	18.61
	8H	16.85	17.16	17.90	18.21	19.58	16.00	16.31	17.05	17.36	18.72
	12H	16.83	17.11	17.89	18.15	19.56	16.09	16.36	17.14	17.41	18.82
12H	4H	16.60	16.98	17.64	18.02	19.38	15.38	15.77	16.42	16.81	18.17
	6H	16.80	17.11	17.85	18.16	19.53	15.85	16.16	16.90	17.21	18.57
	8H	16.83	17.10	17.89	18.15	19.56	16.00	16.27	17.06	17.32	18.73