

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: P999792

Luminaire Tested: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999792
REPORT IS A COMBINATION OF REPORTS P988347 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

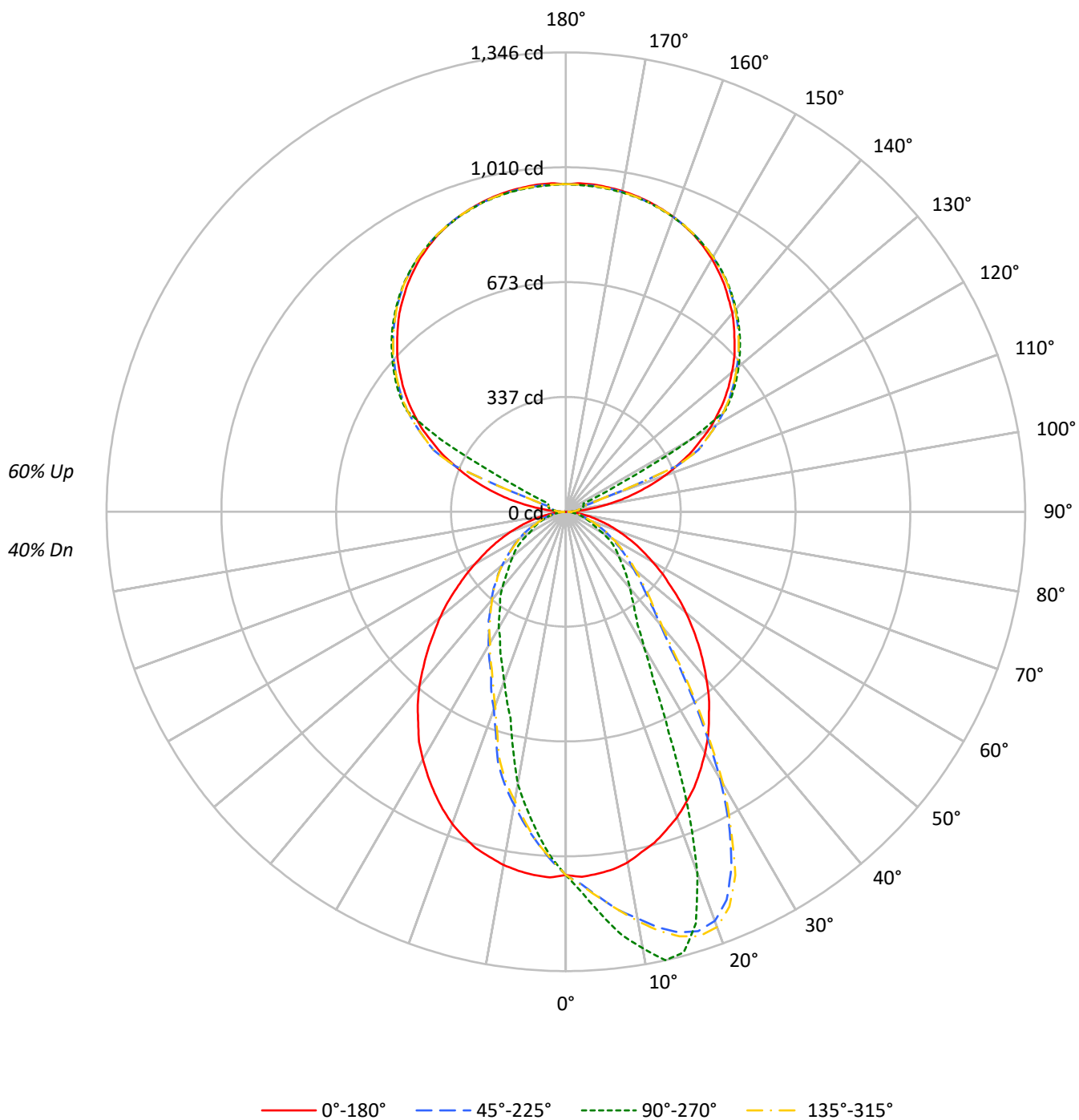
Lumens per Lamp: N/A
Luminaire Lumens: 4655.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 45.1
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47
1	96	92	88	85	87	84	81	78	69	67	65	55	53	52	42	41	40
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	36	35
3	81	72	65	60	73	66	60	55	54	50	47	44	41	39	34	32	31
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	23	21
7	58	47	39	34	53	43	37	32	36	31	28	30	26	24	24	21	19
8	54	43	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18
9	51	39	32	27	46	36	30	26	31	26	22	25	22	19	21	18	16
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16846	16846	16846	16846
5°	16884	17893	16943	14293
10°	16699	18911	16816	11803
15°	16336	18917	16612	8868
20°	15900	15637	16246	7316
25°	15372	9771	15704	6224
30°	14697	6256	15097	5358
35°	13875	4808	14325	4585
40°	12961	4041	13516	4011
45°	11984	3439	12484	3367
50°	10981	2923	11495	2911
55°	9872	2539	10405	2506
60°	8885	1937	9358	1913
65°	7967	1457	8439	1653
70°	6951	1164	7492	1348
75°	5874	892	6411	1018
80°	4663	605	5022	669
85°	3235	313	3546	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 15410 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	2.2
10°-20°	281.7	6.1
20°-30°	362.6	7.8
30°-40°	344.0	7.4
40°-50°	294.8	6.3
50°-60°	224.5	4.8
60°-70°	141.6	3.0
70°-80°	70.6	1.5
80°-90°	19.9	0.4
90°-100°	31.7	0.7
100°-110°	118.0	2.5
110°-120°	313.0	6.7
120°-130°	519.1	11.2
130°-140°	551.4	11.8
140°-150°	512.4	11.0
150°-160°	412.0	8.9
160°-170°	265.5	5.7
170°-180°	91.4	2.0
0°-30°	745.3	16.0
0°-40°	1089.3	23.4
0°-60°	1608.6	34.6
0°-90°	1840.7	39.5
90°-120°	462.7	9.9
90°-150°	2045.5	43.9
90°-180°	2814.0	60.5
0°-180°	4655.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1064	1064	1064	1064	1064	
5°	1065	1184	1069	946	1065	101
15°	1004	1336	1020	626	1004	282
25°	890	713	910	454	890	409
35°	731	351	754	335	731	457
45°	549	244	572	239	549	424
55°	370	169	390	167	370	334
65°	224	88	237	100	224	222
75°	105	47	115	53	105	114
85°	23	13	25	14	23	26
90°	1	19	1	19	1	4
95°	45	30	45	30	45	53
105°	211	53	211	53	211	226
115°	399	57	399	57	399	393
125°	565	594	565	594	565	504
135°	699	722	699	722	699	540
145°	811	823	811	823	811	507
155°	893	893	893	893	893	411
165°	940	938	940	938	940	266
175°	962	956	962	956	962	92
180°	960	960	960	960	960	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1070.8	1075.3	1077.5	1080.4	1087.1	1091.5	1098.2	1099.7	1098.9	1101.9	1093.7
5°	1064.9	1074.5	1083.4	1090.8	1102.6	1110.0	1118.1	1127.8	1130.0	1141.1	1134.4
7.5°	1056.8	1070.8	1083.4	1098.2	1115.9	1125.5	1138.1	1152.9	1159.6	1172.9	1176.6
10°	1043.5	1063.4	1084.9	1100.4	1124.8	1141.8	1153.6	1177.3	1192.8	1212.8	1209.8
12.5°	1022.0	1047.9	1076.7	1102.6	1134.4	1145.5	1167.7	1192.1	1212.1	1230.6	1246.8
15°	1003.5	1033.1	1064.9	1096.7	1132.9	1153.6	1175.8	1207.6	1229.1	1261.6	1275.7
17.5°	978.4	1016.1	1053.8	1089.3	1132.2	1155.9	1183.2	1214.3	1246.1	1277.1	1288.2
20°	952.5	993.2	1033.8	1081.9	1130.7	1153.6	1181.7	1220.2	1251.3	1275.7	1275.7
22.5°	921.4	971.0	1017.6	1063.4	1116.7	1149.9	1178.8	1223.9	1246.1	1251.3	1231.3
25°	890.4	939.9	990.9	1047.9	1108.5	1138.1	1170.6	1212.8	1220.2	1199.5	1147.7
27.5°	853.4	908.9	966.5	1027.9	1091.5	1128.5	1158.1	1186.2	1172.1	1116.7	1036.1
30°	815.7	875.6	940.7	999.1	1076.0	1110.0	1135.2	1143.3	1098.9	1008.7	904.4
32.5°	776.5	834.9	903.7	973.9	1051.6	1084.1	1100.4	1078.9	997.6	883.7	756.5
35°	730.6	796.5	868.2	941.4	1018.3	1042.7	1052.3	999.8	895.6	748.4	621.9
37.5°	689.2	755.0	832.0	906.6	981.3	994.6	985.0	902.9	770.6	624.9	501.4
40°	640.4	710.7	786.1	869.7	931.0	934.7	911.1	804.6	640.4	503.6	427.4
42.5°	595.3	666.3	741.7	826.8	873.4	860.8	829.0	689.2	534.7	434.1	372.7
45°	548.7	616.0	697.4	772.8	806.1	776.5	728.4	579.8	448.9	373.5	326.1
47.5°	503.6	566.5	647.1	719.5	725.5	692.2	635.2	485.9	389.0	328.3	289.9
50°	459.2	522.1	597.5	657.4	651.5	605.7	541.3	422.3	338.0	289.9	258.1
52.5°	414.9	471.8	545.0	592.4	567.2	522.8	459.2	357.9	295.1	252.9	228.5
55°	370.5	423.7	486.6	525.8	485.9	434.8	389.7	306.9	255.9	221.9	203.4
57.5°	333.5	375.7	433.4	457.0	409.0	369.0	329.8	264.0	221.9	197.5	176.0
60°	292.8	331.3	378.6	392.7	343.1	310.6	277.3	223.3	190.1	168.6	154.6
62.5°	258.1	289.9	326.1	326.1	282.5	258.1	232.9	187.1	159.7	142.7	136.1
65°	224.1	247.0	272.9	269.9	232.9	211.5	191.5	154.6	133.9	122.0	115.4
67.5°	190.8	208.5	225.6	215.2	188.6	170.1	151.6	125.0	110.9	102.8	93.9
70°	160.5	174.5	183.4	173.8	147.2	131.6	118.3	100.6	89.5	79.1	74.0
72.5°	134.6	140.5	143.5	131.6	109.4	100.6	91.0	78.4	68.8	63.6	62.1
75°	105.0	110.2	108.0	99.1	80.6	74.0	66.6	57.7	55.5	52.5	51.0
77.5°	82.1	82.1	78.4	70.3	57.7	52.5	49.5	45.1	42.9	42.2	40.7
80°	58.4	57.7	55.5	46.6	39.2	36.2	36.2	33.3	32.5	31.1	31.1
82.5°	38.5	38.5	35.5	28.1	25.9	25.1	24.4	22.9	22.9	22.2	22.2
85°	22.9	21.4	17.7	15.5	14.8	14.8	14.1	13.3	14.1	13.3	13.3
87.5°	10.4	8.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
90°	0.7	2.4	4.1	5.8	7.5	8.3	8.9	10.2	11.4	12.7	13.9
92.5°	17.4	16.8	16.2	15.5	14.9	14.6	14.8	15.3	15.8	16.2	16.7
95°	45.2	40.1	35.0	29.9	24.8	22.2	22.7	23.8	24.9	26.0	27.1
97.5°	81.3	68.6	56.0	43.3	30.6	24.3	25.5	28.0	30.5	32.9	35.4
100°	122.9	101.8	80.6	59.5	38.4	27.8	29.1	31.7	34.4	37.0	39.6
102.5°	168.8	168.5	168.2	167.9	167.6	167.4	153.4	125.3	97.2	69.1	41.0
105°	211.2	215.8	220.4	225.1	229.7	232.0	210.9	168.8	126.7	84.5	42.4
107.5°	260.5	264.4	268.2	272.1	276.0	277.9	251.9	199.9	147.8	95.8	43.8
110°	307.7	310.9	314.2	317.4	320.7	322.3	300.0	255.4	210.8	166.2	121.6

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	352.2	355.0	357.8	360.5	363.3	364.7	363.4	360.8	358.1	355.5	352.9
115°	399.4	402.0	404.6	407.3	409.9	411.2	413.1	417.0	420.9	424.7	428.6
117.5°	440.4	443.5	446.6	449.7	452.8	454.3	455.6	458.2	460.9	463.5	466.1
120°	486.2	488.5	490.9	493.2	495.5	496.7	498.1	500.9	503.6	506.4	509.2
122.5°	525.1	527.6	530.1	532.6	535.1	536.3	537.8	540.9	544.0	547.0	550.1
125°	564.7	566.7	568.7	570.8	572.8	573.8	575.3	578.2	581.1	584.1	587.0
127.5°	600.9	603.1	605.2	607.4	609.5	610.6	611.8	614.1	616.4	618.7	621.0
130°	634.9	637.4	639.8	642.3	644.8	646.0	646.8	648.5	650.2	651.9	653.6
132.5°	669.6	671.6	673.6	675.7	677.7	678.7	679.5	681.2	682.9	684.6	686.3
135°	698.8	701.3	703.7	706.2	708.7	709.9	710.6	712.0	713.4	714.8	716.2
137.5°	729.4	731.2	733.1	734.9	736.8	737.7	738.5	740.0	741.5	743.1	744.6
140°	759.2	760.4	761.7	762.9	764.2	764.8	765.6	767.3	769.0	770.7	772.4
142.5°	784.2	785.3	786.4	787.5	788.6	789.1	790.1	792.1	794.1	796.1	798.1
145°	810.6	810.4	810.3	810.1	810.0	809.9	811.2	813.8	816.5	819.1	821.7
147.5°	833.6	833.1	832.7	832.2	831.7	831.5	832.8	835.4	838.1	840.7	843.3
150°	855.8	854.7	853.6	852.5	851.4	850.9	852.1	854.6	857.1	859.5	862.0
152.5°	874.5	873.3	872.1	870.8	869.6	869.0	870.2	872.5	874.8	877.1	879.4
155°	892.6	891.2	889.8	888.4	887.0	886.3	887.2	889.1	891.0	892.8	894.7
157.5°	907.2	906.0	904.7	903.5	902.2	901.6	902.3	903.7	905.1	906.5	907.9
160°	919.7	918.8	917.8	916.9	916.0	915.5	916.0	916.9	917.8	918.8	919.7
162.5°	930.8	929.9	928.9	928.0	927.1	926.6	927.0	927.8	928.5	929.3	930.1
165°	940.5	939.6	938.7	937.8	936.9	936.4	936.6	937.1	937.5	938.0	938.4
167.5°	948.2	947.3	946.3	945.4	944.5	944.0	944.2	944.7	945.2	945.6	946.1
170°	954.4	953.5	952.6	951.7	950.8	950.3	950.4	950.7	951.0	951.3	951.6
172.5°	958.6	957.7	956.7	955.8	954.9	954.4	954.6	954.9	955.2	955.5	955.8
175°	962.1	961.0	959.9	958.8	957.7	957.2	957.4	957.7	958.0	958.3	958.6
177.5°	963.4	962.3	961.3	960.2	959.1	958.6	958.7	958.8	959.0	959.1	959.3
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1101.9	1103.4	1105.6	1115.9	1117.4	1120.4	1118.9	1118.9	1119.6	1118.1	1118.9
5°	1149.2	1151.4	1162.5	1175.1	1178.0	1175.1	1178.8	1184.0	1184.0	1184.0	1182.5
7.5°	1193.6	1201.7	1214.3	1232.8	1236.5	1240.2	1246.8	1242.4	1243.9	1250.5	1248.3
10°	1236.5	1248.3	1262.3	1277.9	1286.0	1291.2	1294.1	1300.8	1316.3	1298.6	1305.2
12.5°	1277.1	1294.1	1308.9	1325.9	1331.9	1338.5	1340.7	1346.7	1346.7	1345.9	1351.1
15°	1303.8	1319.3	1332.6	1343.7	1345.2	1343.7	1342.2	1343.0	1345.2	1336.3	1341.5
17.5°	1309.7	1311.2	1315.6	1311.2	1311.9	1296.4	1287.5	1285.3	1264.6	1265.3	1282.3
20°	1280.8	1255.7	1249.0	1224.6	1209.8	1169.9	1168.4	1157.3	1113.7	1127.0	1124.1
22.5°	1201.7	1158.8	1101.9	1073.8	1059.7	1017.6	985.0	962.1	946.6	931.0	924.4
25°	1097.4	1027.9	947.3	891.9	883.7	844.5	784.6	756.5	723.2	712.9	730.6
27.5°	962.8	872.6	781.7	696.6	681.1	645.6	615.3	595.3	556.9	554.6	556.1
30°	780.2	689.2	613.1	557.6	519.1	502.9	482.9	468.1	452.6	458.5	460.0
32.5°	641.2	554.6	483.6	454.1	436.3	426.0	409.0	399.3	392.7	390.5	389.7
35°	509.5	451.8	420.0	391.2	380.8	373.5	360.9	356.4	350.5	351.3	351.3
37.5°	436.3	388.2	364.6	349.8	340.2	336.5	328.3	323.9	320.2	318.7	320.9
40°	376.4	343.1	328.3	315.0	306.9	305.4	301.0	295.8	291.4	292.1	294.3
42.5°	332.8	313.6	295.8	285.5	279.5	277.3	273.6	269.9	269.9	267.7	267.0
45°	298.0	282.5	267.7	258.1	254.4	251.4	247.0	246.3	243.3	244.0	244.8
47.5°	267.0	254.4	243.3	233.7	230.0	229.2	224.8	221.9	221.9	221.1	220.4
50°	238.9	226.3	216.7	211.5	206.3	204.8	204.1	203.4	201.9	201.9	202.6
52.5°	215.9	203.4	196.0	191.5	188.6	187.1	187.1	186.4	186.4	186.4	185.6
55°	190.8	180.4	174.5	173.0	171.6	170.8	170.1	168.6	167.9	169.3	167.9
57.5°	167.1	163.4	158.3	156.8	153.1	153.1	150.9	149.4	147.9	149.4	149.4
60°	148.6	143.5	140.5	136.1	133.1	130.2	126.5	125.7	124.2	123.5	122.8
62.5°	129.4	125.0	117.6	110.9	106.5	103.5	102.1	101.3	101.3	100.6	100.6
65°	108.0	97.6	93.9	91.7	91.0	90.2	88.7	88.0	88.7	88.0	88.7
67.5°	84.3	82.8	80.6	79.1	78.4	77.6	77.6	76.9	76.9	76.9	76.9
70°	73.2	69.5	68.8	67.3	67.3	66.6	66.6	66.6	66.6	65.8	67.3
72.5°	60.6	58.4	57.7	56.9	56.9	56.9	56.2	56.2	56.2	55.5	56.2
75°	49.5	48.8	47.3	47.3	46.6	47.3	46.6	46.6	45.8	46.6	46.6
77.5°	39.9	39.2	38.5	38.5	37.7	37.7	37.7	37.7	37.7	37.7	38.5
80°	30.3	29.6	28.8	29.6	28.8	29.6	28.8	28.8	29.6	28.8	28.8
82.5°	22.2	21.4	21.4	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
85°	13.3	12.6	12.6	13.3	12.6	13.3	12.6	12.6	12.6	13.3	13.3
87.5°	5.9	6.7	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	6.7
90°	14.7	15.5	16.2	17.0	17.4	17.6	17.9	18.2	18.5	18.8	18.5
92.5°	17.0	17.3	17.6	17.9	18.1	18.2	18.3	18.5	18.6	18.8	18.6
95°	27.9	28.7	29.4	30.2	30.6	30.5	30.4	30.2	30.1	29.9	30.1
97.5°	35.9	36.3	36.8	37.3	37.5	37.6	37.7	37.9	38.0	38.2	38.0
100°	40.8	42.1	43.3	44.6	45.2	45.3	45.6	45.9	46.2	46.5	46.2
102.5°	42.7	44.4	46.1	47.8	48.6	48.8	49.3	49.8	50.2	50.7	50.2
105°	44.1	45.8	47.5	49.2	50.0	50.3	50.9	51.6	52.2	52.8	52.2
107.5°	45.5	47.2	48.9	50.6	51.4	51.7	52.3	53.0	53.6	54.2	53.6
110°	106.2	90.7	75.3	59.8	52.1	52.4	53.0	53.7	54.3	54.9	54.3

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	286.4	219.8	153.3	86.8	53.5	53.7	54.2	54.7	55.1	55.6	55.1
115°	357.1	285.7	214.2	142.7	107.0	101.4	90.3	79.2	68.1	57.0	68.1
117.5°	444.0	422.0	399.9	377.8	366.8	346.6	306.1	265.7	225.2	184.8	225.2
120°	511.0	512.9	514.7	516.6	517.5	507.1	486.2	465.4	444.5	423.7	444.5
122.5°	551.0	552.0	552.9	553.8	554.3	554.4	554.5	554.7	554.8	555.0	554.8
125°	588.1	589.1	590.2	591.3	591.8	592.0	592.5	593.0	593.4	593.9	593.4
127.5°	622.5	624.1	625.6	627.1	627.9	628.0	628.1	628.3	628.4	628.6	628.4
130°	655.3	657.0	658.7	660.4	661.3	661.2	661.1	660.9	660.8	660.6	660.8
132.5°	687.7	689.1	690.4	691.8	692.5	692.4	692.3	692.1	692.0	691.8	692.0
135°	717.7	719.3	720.8	722.3	723.1	722.9	722.6	722.3	722.0	721.7	722.0
137.5°	746.2	747.7	749.3	750.8	751.6	751.4	750.9	750.4	750.0	749.5	750.0
140°	773.8	775.2	776.6	778.0	778.7	778.3	777.5	776.8	776.0	775.2	776.0
142.5°	799.3	800.6	801.8	803.1	803.7	803.3	802.5	801.8	801.0	800.2	801.0
145°	822.8	823.9	825.0	826.1	826.6	826.2	825.4	824.7	823.9	823.1	823.9
147.5°	844.1	844.9	845.6	846.4	846.8	846.5	845.9	845.2	844.6	844.0	844.6
150°	862.9	863.9	864.8	865.7	866.2	865.8	865.0	864.3	863.5	862.7	863.5
152.5°	880.3	881.3	882.2	883.1	883.6	883.1	882.0	880.9	879.8	878.7	879.8
155°	895.6	896.5	897.4	898.3	898.8	898.2	897.0	895.7	894.5	893.3	894.5
157.5°	909.0	910.0	911.1	912.2	912.7	912.1	910.9	909.6	908.4	907.2	908.4
160°	920.6	921.6	922.5	923.4	923.9	923.4	922.3	921.2	920.1	919.0	920.1
162.5°	931.2	932.3	933.4	934.5	935.0	934.3	932.9	931.5	930.1	928.7	930.1
165°	939.5	940.6	941.7	942.8	943.3	942.8	941.7	940.6	939.5	938.4	939.5
167.5°	947.2	948.2	949.3	950.4	950.9	950.2	948.8	947.5	946.1	944.7	946.1
170°	952.7	953.8	954.9	956.0	956.5	955.8	954.4	953.1	951.7	950.3	951.7
172.5°	956.9	958.0	959.1	960.2	960.7	960.0	958.6	957.2	955.8	954.4	955.8
175°	959.7	960.7	961.8	962.9	963.4	962.6	961.1	959.6	958.0	956.5	958.0
177.5°	960.4	961.4	962.5	963.6	964.1	963.4	962.0	960.7	959.3	957.9	959.3
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1121.8	1116.7	1115.2	1116.7	1115.2	1115.9	1110.7	1091.5	1096.7	1088.6	1093.0
5°	1185.4	1181.0	1171.4	1169.9	1168.4	1167.0	1159.6	1142.5	1135.9	1124.8	1124.1
7.5°	1246.1	1246.1	1238.7	1233.5	1226.9	1221.7	1212.1	1186.9	1176.6	1163.3	1155.9
10°	1306.0	1286.8	1294.9	1289.7	1273.4	1270.5	1252.7	1237.9	1218.0	1204.7	1192.8
12.5°	1348.9	1343.0	1335.6	1331.1	1326.7	1317.1	1305.2	1267.5	1257.2	1230.6	1217.2
15°	1347.4	1343.7	1345.9	1345.9	1344.4	1342.2	1332.6	1305.2	1287.5	1261.6	1238.7
17.5°	1274.9	1284.5	1294.1	1300.8	1315.6	1322.2	1331.1	1314.9	1303.8	1281.6	1257.2
20°	1148.5	1172.1	1200.2	1206.1	1219.5	1258.7	1276.4	1290.5	1294.9	1287.5	1267.5
22.5°	972.5	992.4	1060.5	1059.0	1078.2	1124.8	1176.6	1218.7	1252.0	1270.5	1263.1
25°	761.7	789.8	826.0	853.4	916.3	985.8	1050.1	1117.4	1175.1	1226.1	1238.7
27.5°	576.1	613.1	641.9	678.1	709.9	792.0	874.8	979.9	1047.2	1144.0	1194.3
30°	465.9	482.9	511.7	528.8	544.3	607.1	701.1	804.6	922.9	1034.6	1121.1
32.5°	397.9	409.7	431.1	438.5	454.8	497.0	556.1	650.8	772.8	908.1	1022.0
35°	357.2	369.8	374.2	380.8	394.2	420.8	461.5	530.2	640.4	772.8	908.9
37.5°	322.4	329.1	341.7	346.1	350.5	370.5	397.9	445.9	519.1	627.8	778.7
40°	298.0	301.7	308.4	312.1	315.0	329.1	353.5	386.0	440.0	522.8	661.9
42.5°	272.1	276.6	281.0	285.5	289.1	300.2	315.0	346.1	382.3	445.2	545.8
45°	247.0	250.0	255.1	258.1	263.3	272.1	285.5	306.9	339.4	379.4	460.7
47.5°	224.1	227.8	230.0	233.7	237.4	247.0	259.6	273.6	300.2	339.4	398.6
50°	203.4	207.8	210.8	211.5	214.5	223.3	233.7	249.2	266.2	296.5	348.3
52.5°	188.6	189.3	191.5	194.5	193.8	198.9	208.5	220.4	238.1	262.5	300.2
55°	171.6	173.8	175.3	176.0	176.0	180.4	185.6	196.7	210.8	230.7	262.5
57.5°	150.1	152.3	156.8	158.3	160.5	162.7	164.9	172.3	184.1	203.4	229.2
60°	127.9	129.4	133.9	136.8	138.3	144.2	147.2	153.1	159.7	173.8	198.2
62.5°	102.8	104.3	106.5	109.4	112.4	121.3	128.7	134.6	139.8	149.4	169.3
65°	89.5	90.2	91.7	92.4	93.2	96.9	103.5	111.7	121.3	128.7	140.5
67.5°	77.6	78.4	79.1	80.6	81.3	82.1	85.0	87.3	96.9	107.2	116.1
70°	66.6	68.0	68.8	68.8	69.5	71.0	72.5	75.4	78.4	83.6	94.7
72.5°	56.2	56.9	58.4	58.4	58.4	59.9	61.4	62.9	64.3	67.3	71.7
75°	46.6	48.1	48.1	48.1	48.8	48.8	50.3	51.8	53.2	55.5	56.9
77.5°	38.5	38.5	38.5	38.5	39.2	39.2	39.9	41.4	42.2	42.9	44.4
80°	28.8	29.6	29.6	29.6	30.3	30.3	30.3	31.8	32.5	32.5	34.0
82.5°	21.4	21.4	21.4	22.2	21.4	22.2	22.2	22.9	22.2	22.9	23.7
85°	13.3	13.3	13.3	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.8
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	7.4	6.7	6.7
90°	18.2	17.9	17.6	17.4	17.0	16.2	15.5	14.7	13.9	12.7	11.4
92.5°	18.5	18.3	18.2	18.1	17.9	17.6	17.3	17.0	16.7	16.2	15.8
95°	30.2	30.4	30.5	30.6	30.2	29.4	28.7	27.9	27.1	26.0	24.9
97.5°	37.9	37.7	37.6	37.5	37.3	36.8	36.3	35.9	35.4	32.9	30.5
100°	45.9	45.6	45.3	45.2	44.6	43.3	42.1	40.8	39.6	37.0	34.4
102.5°	49.8	49.3	48.8	48.6	47.8	46.1	44.4	42.7	41.0	39.1	37.2
105°	51.6	50.9	50.3	50.0	49.2	47.5	45.8	44.1	42.4	40.5	38.7
107.5°	53.0	52.3	51.7	51.4	50.6	48.9	47.2	45.5	43.8	42.1	40.4
110°	53.7	53.0	52.4	52.1	51.8	51.3	50.7	50.2	49.6	49.0	48.4

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	54.7	54.2	53.7	53.5	86.8	153.3	219.8	286.4	352.9	355.5	358.1
115°	79.2	90.3	101.4	107.0	142.7	214.2	285.7	357.1	428.6	424.7	420.9
117.5°	265.7	306.1	346.6	366.8	377.8	399.9	422.0	444.0	466.1	463.5	460.9
120°	465.4	486.2	507.1	517.5	516.6	514.7	512.9	511.0	509.2	506.4	503.6
122.5°	554.7	554.5	554.4	554.3	553.8	552.9	552.0	551.0	550.1	547.0	544.0
125°	593.0	592.5	592.0	591.8	591.3	590.2	589.1	588.1	587.0	584.1	581.1
127.5°	628.3	628.1	628.0	627.9	627.1	625.6	624.1	622.5	621.0	618.7	616.4
130°	660.9	661.1	661.2	661.3	660.4	658.7	657.0	655.3	653.6	651.9	650.2
132.5°	692.1	692.3	692.4	692.5	691.8	690.4	689.1	687.7	686.3	684.6	682.9
135°	722.3	722.6	722.9	723.1	722.3	720.8	719.3	717.7	716.2	714.8	713.4
137.5°	750.4	750.9	751.4	751.6	750.8	749.3	747.7	746.2	744.6	743.1	741.5
140°	776.8	777.5	778.3	778.7	778.0	776.6	775.2	773.8	772.4	770.7	769.0
142.5°	801.8	802.5	803.3	803.7	803.1	801.8	800.6	799.3	798.1	796.1	794.1
145°	824.7	825.4	826.2	826.6	826.1	825.0	823.9	822.8	821.7	819.1	816.5
147.5°	845.2	845.9	846.5	846.8	846.4	845.6	844.9	844.1	843.3	840.7	838.1
150°	864.3	865.0	865.8	866.2	865.7	864.8	863.9	862.9	862.0	859.5	857.1
152.5°	880.9	882.0	883.1	883.6	883.1	882.2	881.3	880.3	879.4	877.1	874.8
155°	895.7	897.0	898.2	898.8	898.3	897.4	896.5	895.6	894.7	892.8	891.0
157.5°	909.6	910.9	912.1	912.7	912.2	911.1	910.0	909.0	907.9	906.5	905.1
160°	921.2	922.3	923.4	923.9	923.4	922.5	921.6	920.6	919.7	918.8	917.8
162.5°	931.5	932.9	934.3	935.0	934.5	933.4	932.3	931.2	930.1	929.3	928.5
165°	940.6	941.7	942.8	943.3	942.8	941.7	940.6	939.5	938.4	938.0	937.5
167.5°	947.5	948.8	950.2	950.9	950.4	949.3	948.2	947.2	946.1	945.6	945.2
170°	953.1	954.4	955.8	956.5	956.0	954.9	953.8	952.7	951.6	951.3	951.0
172.5°	957.2	958.6	960.0	960.7	960.2	959.1	958.0	956.9	955.8	955.5	955.2
175°	959.6	961.1	962.6	963.4	962.9	961.8	960.7	959.7	958.6	958.3	958.0
177.5°	960.7	962.0	963.4	964.1	963.6	962.5	961.4	960.4	959.3	959.1	959.0
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1086.3	1082.6	1082.6	1080.4	1080.4	1068.6	1068.6	1072.3	1067.9	1062.7	1055.3
5°	1114.4	1106.3	1104.1	1101.1	1091.5	1076.7	1070.8	1068.6	1059.7	1048.6	1036.1
7.5°	1141.1	1127.8	1121.1	1114.4	1101.9	1081.2	1069.3	1061.2	1047.9	1030.9	1014.6
10°	1167.0	1149.9	1132.9	1124.8	1107.1	1081.2	1064.2	1050.8	1031.6	1008.7	985.8
12.5°	1190.6	1155.1	1152.2	1135.9	1110.0	1080.4	1054.5	1035.3	1010.9	984.3	957.7
15°	1211.3	1175.1	1157.3	1142.5	1108.5	1071.6	1044.2	1020.5	988.0	957.7	925.1
17.5°	1221.7	1182.5	1170.6	1146.2	1111.5	1063.4	1026.4	997.6	962.1	925.9	888.9
20°	1232.0	1186.2	1167.0	1149.9	1102.6	1047.9	1006.5	973.2	934.0	891.1	850.4
22.5°	1237.2	1186.2	1163.3	1139.6	1093.7	1030.9	982.1	942.9	897.0	853.4	804.6
25°	1228.3	1181.7	1154.4	1130.0	1078.2	1010.2	954.0	909.6	860.8	811.2	761.7
27.5°	1206.1	1171.4	1139.6	1114.4	1056.8	983.6	924.4	874.1	823.8	768.4	718.1
30°	1164.7	1149.2	1124.1	1096.0	1033.1	959.9	889.6	837.9	782.4	726.9	674.4
32.5°	1100.4	1113.7	1097.4	1073.0	1005.0	927.3	852.7	800.2	739.5	679.6	631.5
35°	1022.0	1069.3	1060.5	1043.5	975.4	892.6	817.9	754.3	693.7	633.0	585.0
37.5°	936.2	1008.0	1015.4	1005.0	941.4	857.1	775.0	712.9	650.8	589.4	540.6
40°	818.6	928.8	952.5	956.9	905.9	814.2	728.4	667.8	606.4	546.5	487.3
42.5°	710.7	849.7	879.3	897.8	860.8	772.1	685.5	618.2	557.6	503.6	444.4
45°	609.4	754.3	802.4	826.0	809.8	724.0	634.5	571.6	516.2	466.6	409.7
47.5°	505.1	650.8	718.1	755.8	755.8	675.2	585.7	523.6	470.3	428.2	377.9
50°	435.6	556.9	626.4	675.9	689.2	625.6	541.3	480.7	430.4	384.5	346.1
52.5°	371.2	479.9	537.6	589.4	627.8	572.4	491.8	437.1	387.5	344.6	314.3
55°	320.9	402.3	454.8	511.7	554.6	518.4	443.7	390.5	347.6	312.1	286.2
57.5°	272.9	343.9	386.8	437.1	482.9	455.5	395.6	349.8	312.1	281.0	258.1
60°	232.2	289.9	323.2	362.4	419.3	400.1	350.5	308.4	278.1	250.0	230.7
62.5°	197.5	243.3	271.4	299.5	351.3	342.4	303.9	271.4	245.5	221.9	205.6
65°	162.0	199.7	221.9	246.3	287.7	291.4	260.3	237.4	213.7	193.0	178.2
67.5°	130.9	160.5	180.4	201.1	234.4	244.8	223.3	204.1	184.1	167.1	153.8
70°	105.8	126.5	141.2	157.5	184.9	197.5	186.4	173.0	156.8	142.7	130.9
72.5°	83.6	96.9	105.8	118.3	140.5	153.1	152.3	140.5	128.7	119.1	109.4
75°	61.4	71.7	79.1	87.3	105.0	116.8	119.8	114.6	102.8	95.4	88.0
77.5°	46.6	52.5	56.2	62.1	74.7	85.0	89.5	88.0	79.9	74.0	68.8
80°	35.5	37.0	38.5	40.7	51.0	60.6	63.6	62.9	58.4	56.2	50.3
82.5°	25.1	25.9	26.6	27.4	31.1	39.2	42.2	43.6	39.9	37.7	32.5
85°	14.8	15.5	15.5	17.0	17.7	20.0	25.1	25.1	24.4	21.4	20.7
87.5°	7.4	7.4	6.7	6.7	7.4	8.1	9.6	11.1	9.6	8.9	8.1
90°	10.2	8.9	8.3	7.5	5.8	4.1	2.4	0.7	2.4	4.1	5.8
92.5°	15.3	14.8	14.6	14.9	15.5	16.2	16.8	17.4	16.8	16.2	15.5
95°	23.8	22.7	22.2	24.8	29.9	35.0	40.1	45.2	40.1	35.0	29.9
97.5°	28.0	25.5	24.3	30.6	43.3	56.0	68.6	81.3	68.6	56.0	43.3
100°	31.7	29.1	27.8	38.4	59.5	80.6	101.8	122.9	101.8	80.6	59.5
102.5°	125.3	153.4	167.4	167.6	167.9	168.2	168.5	168.8	168.5	168.2	167.9
105°	168.8	210.9	232.0	229.7	225.1	220.4	215.8	211.2	215.8	220.4	225.1
107.5°	199.9	251.9	277.9	276.0	272.1	268.2	264.4	260.5	264.4	268.2	272.1
110°	255.4	300.0	322.3	320.7	317.4	314.2	310.9	307.7	310.9	314.2	317.4

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	360.8	363.4	364.7	363.3	360.5	357.8	355.0	352.2	355.0	357.8	360.5
115°	417.0	413.1	411.2	409.9	407.3	404.6	402.0	399.4	402.0	404.6	407.3
117.5°	458.2	455.6	454.3	452.8	449.7	446.6	443.5	440.4	443.5	446.6	449.7
120°	500.9	498.1	496.7	495.5	493.2	490.9	488.5	486.2	488.5	490.9	493.2
122.5°	540.9	537.8	536.3	535.1	532.6	530.1	527.6	525.1	527.6	530.1	532.6
125°	578.2	575.3	573.8	572.8	570.8	568.7	566.7	564.7	566.7	568.7	570.8
127.5°	614.1	611.8	610.6	609.5	607.4	605.2	603.1	600.9	603.1	605.2	607.4
130°	648.5	646.8	646.0	644.8	642.3	639.8	637.4	634.9	637.4	639.8	642.3
132.5°	681.2	679.5	678.7	677.7	675.7	673.6	671.6	669.6	671.6	673.6	675.7
135°	712.0	710.6	709.9	708.7	706.2	703.7	701.3	698.8	701.3	703.7	706.2
137.5°	740.0	738.5	737.7	736.8	734.9	733.1	731.2	729.4	731.2	733.1	734.9
140°	767.3	765.6	764.8	764.2	762.9	761.7	760.4	759.2	760.4	761.7	762.9
142.5°	792.1	790.1	789.1	788.6	787.5	786.4	785.3	784.2	785.3	786.4	787.5
145°	813.8	811.2	809.9	810.0	810.1	810.3	810.4	810.6	810.4	810.3	810.1
147.5°	835.4	832.8	831.5	831.7	832.2	832.7	833.1	833.6	833.1	832.7	832.2
150°	854.6	852.1	850.9	851.4	852.5	853.6	854.7	855.8	854.7	853.6	852.5
152.5°	872.5	870.2	869.0	869.6	870.8	872.1	873.3	874.5	873.3	872.1	870.8
155°	889.1	887.2	886.3	887.0	888.4	889.8	891.2	892.6	891.2	889.8	888.4
157.5°	903.7	902.3	901.6	902.2	903.5	904.7	906.0	907.2	906.0	904.7	903.5
160°	916.9	916.0	915.5	916.0	916.9	917.8	918.8	919.7	918.8	917.8	916.9
162.5°	927.8	927.0	926.6	927.1	928.0	928.9	929.9	930.8	929.9	928.9	928.0
165°	937.1	936.6	936.4	936.9	937.8	938.7	939.6	940.5	939.6	938.7	937.8
167.5°	944.7	944.2	944.0	944.5	945.4	946.3	947.3	948.2	947.3	946.3	945.4
170°	950.7	950.4	950.3	950.8	951.7	952.6	953.5	954.4	953.5	952.6	951.7
172.5°	954.9	954.6	954.4	954.9	955.8	956.7	957.7	958.6	957.7	956.7	955.8
175°	957.7	957.4	957.2	957.7	958.8	959.9	961.0	962.1	961.0	959.9	958.8
177.5°	958.8	958.7	958.6	959.1	960.2	961.3	962.3	963.4	962.3	961.3	960.2
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1052.3	1053.1	1055.3	1048.6	1038.3	1033.8	1020.5	1018.3	1016.1	1016.1	1018.3
5°	1028.7	1025.7	1026.4	1013.9	999.1	990.2	971.7	974.7	965.1	959.1	960.6
7.5°	1002.8	994.6	993.9	977.6	959.1	942.9	923.7	919.2	910.3	900.0	895.6
10°	970.2	964.3	953.2	934.7	911.1	897.8	871.9	856.4	854.1	838.6	832.7
12.5°	937.0	926.6	915.5	889.6	863.0	841.6	822.3	805.3	793.5	780.2	771.3
15°	898.5	885.9	873.4	846.0	814.9	793.5	764.7	739.5	704.8	677.4	661.9
17.5°	856.4	842.3	825.3	795.0	764.7	735.1	681.8	652.3	627.8	611.6	602.0
20°	812.7	797.2	780.2	749.9	697.4	645.6	616.0	593.1	578.3	562.0	550.2
22.5°	766.9	750.6	732.1	684.8	629.3	593.1	570.2	548.7	527.3	518.4	512.5
25°	724.0	709.2	685.5	621.2	577.6	544.3	518.4	504.3	493.3	481.4	470.3
27.5°	679.6	652.3	619.0	565.0	537.6	503.6	485.1	474.8	455.5	447.4	442.2
30°	626.4	596.0	564.2	525.8	494.0	470.3	453.3	436.3	425.2	417.1	408.2
32.5°	572.4	543.5	523.6	483.6	460.0	435.6	419.3	409.0	392.7	387.5	383.8
35°	525.8	501.4	483.6	451.1	428.9	406.7	394.9	379.4	369.0	359.4	353.5
37.5°	479.9	466.6	448.1	420.8	397.1	379.4	363.1	357.9	343.9	338.7	332.8
40°	448.1	428.2	412.6	389.0	369.0	349.8	339.4	327.6	318.0	309.9	307.6
42.5°	409.7	394.9	386.0	360.1	339.4	328.3	315.8	302.5	295.1	288.4	280.3
45°	380.8	367.5	355.0	334.3	315.8	301.7	290.6	281.8	269.2	266.2	253.7
47.5°	350.5	337.2	327.6	306.9	289.9	276.6	268.4	256.6	246.3	239.6	233.7
50°	320.2	309.1	300.2	282.5	267.7	253.7	242.6	230.7	226.3	215.2	211.5
52.5°	291.4	284.0	274.4	257.4	242.6	230.7	218.9	209.3	202.6	196.7	192.3
55°	267.0	255.1	250.7	232.2	219.6	207.1	196.7	190.8	182.7	179.0	175.3
57.5°	239.6	232.9	225.6	211.5	197.5	185.6	178.2	169.3	164.9	160.5	157.5
60°	215.9	206.3	200.4	188.6	176.0	164.9	158.3	151.6	145.7	142.0	136.1
62.5°	188.6	181.2	177.5	164.9	154.6	144.2	138.3	131.6	127.2	120.5	113.1
65°	164.9	159.0	154.6	144.2	134.6	125.0	119.1	110.9	105.0	101.3	100.6
67.5°	144.2	139.8	133.1	123.5	113.9	106.5	99.8	93.2	92.4	91.0	91.0
70°	121.3	116.8	113.1	102.8	94.7	86.5	85.0	82.8	80.6	79.9	78.4
72.5°	101.3	97.6	93.2	84.3	76.2	74.0	72.5	71.0	68.8	68.0	67.3
75°	82.1	76.9	74.0	65.8	63.6	62.1	60.6	58.4	56.9	56.2	54.7
77.5°	62.9	57.7	57.7	53.2	51.8	49.5	48.1	46.6	45.8	44.4	44.4
80°	44.4	44.4	42.9	40.7	38.5	37.7	35.5	34.8	34.0	34.8	33.3
82.5°	32.5	29.6	29.6	28.1	26.6	25.9	24.4	24.4	23.7	23.7	23.7
85°	18.5	18.5	17.7	16.3	15.5	15.5	14.8	14.8	14.1	14.1	13.3
87.5°	7.4	6.7	7.4	6.7	6.7	5.9	5.9	5.9	5.2	5.9	5.2
90°	7.5	8.3	8.9	10.2	11.4	12.7	13.9	14.7	15.5	16.2	17.0
92.5°	14.9	14.6	14.8	15.3	15.8	16.2	16.7	17.0	17.3	17.6	17.9
95°	24.8	22.2	22.7	23.8	24.9	26.0	27.1	27.9	28.7	29.4	30.2
97.5°	30.6	24.3	25.5	28.0	30.5	32.9	35.4	35.9	36.3	36.8	37.3
100°	38.4	27.8	29.1	31.7	34.4	37.0	39.6	40.8	42.1	43.3	44.6
102.5°	167.6	167.4	153.4	125.3	97.2	69.1	41.0	42.7	44.4	46.1	47.8
105°	229.7	232.0	210.9	168.8	126.7	84.5	42.4	44.1	45.8	47.5	49.2
107.5°	276.0	277.9	251.9	199.9	147.8	95.8	43.8	45.5	47.2	48.9	50.6
110°	320.7	322.3	300.0	255.4	210.8	166.2	121.6	106.2	90.7	75.3	59.8

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	363.3	364.7	363.4	360.8	358.1	355.5	352.9	286.4	219.8	153.3	86.8
115°	409.9	411.2	413.1	417.0	420.9	424.7	428.6	357.1	285.7	214.2	142.7
117.5°	452.8	454.3	455.6	458.2	460.9	463.5	466.1	444.0	422.0	399.9	377.8
120°	495.5	496.7	498.1	500.9	503.6	506.4	509.2	511.0	512.9	514.7	516.6
122.5°	535.1	536.3	537.8	540.9	544.0	547.0	550.1	551.0	552.0	552.9	553.8
125°	572.8	573.8	575.3	578.2	581.1	584.1	587.0	588.1	589.1	590.2	591.3
127.5°	609.5	610.6	611.8	614.1	616.4	618.7	621.0	622.5	624.1	625.6	627.1
130°	644.8	646.0	646.8	648.5	650.2	651.9	653.6	655.3	657.0	658.7	660.4
132.5°	677.7	678.7	679.5	681.2	682.9	684.6	686.3	687.7	689.1	690.4	691.8
135°	708.7	709.9	710.6	712.0	713.4	714.8	716.2	717.7	719.3	720.8	722.3
137.5°	736.8	737.7	738.5	740.0	741.5	743.1	744.6	746.2	747.7	749.3	750.8
140°	764.2	764.8	765.6	767.3	769.0	770.7	772.4	773.8	775.2	776.6	778.0
142.5°	788.6	789.1	790.1	792.1	794.1	796.1	798.1	799.3	800.6	801.8	803.1
145°	810.0	809.9	811.2	813.8	816.5	819.1	821.7	822.8	823.9	825.0	826.1
147.5°	831.7	831.5	832.8	835.4	838.1	840.7	843.3	844.1	844.9	845.6	846.4
150°	851.4	850.9	852.1	854.6	857.1	859.5	862.0	862.9	863.9	864.8	865.7
152.5°	869.6	869.0	870.2	872.5	874.8	877.1	879.4	880.3	881.3	882.2	883.1
155°	887.0	886.3	887.2	889.1	891.0	892.8	894.7	895.6	896.5	897.4	898.3
157.5°	902.2	901.6	902.3	903.7	905.1	906.5	907.9	909.0	910.0	911.1	912.2
160°	916.0	915.5	916.0	916.9	917.8	918.8	919.7	920.6	921.6	922.5	923.4
162.5°	927.1	926.6	927.0	927.8	928.5	929.3	930.1	931.2	932.3	933.4	934.5
165°	936.9	936.4	936.6	937.1	937.5	938.0	938.4	939.5	940.6	941.7	942.8
167.5°	944.5	944.0	944.2	944.7	945.2	945.6	946.1	947.2	948.2	949.3	950.4
170°	950.8	950.3	950.4	950.7	951.0	951.3	951.6	952.7	953.8	954.9	956.0
172.5°	954.9	954.4	954.6	954.9	955.2	955.5	955.8	956.9	958.0	959.1	960.2
175°	957.7	957.2	957.4	957.7	958.0	958.3	958.6	959.7	960.7	961.8	962.9
177.5°	959.1	958.6	958.7	958.8	959.0	959.1	959.3	960.4	961.4	962.5	963.6
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1018.3	1016.8	1012.4	1013.9	1011.7	1011.7	1010.2	1010.2	1010.2	1013.9	1011.7
5°	962.8	957.7	952.5	950.3	948.1	945.8	945.8	945.1	951.8	950.3	956.2
7.5°	894.1	892.6	882.2	882.2	878.5	877.1	880.8	881.5	882.2	883.7	887.4
10°	832.7	829.0	814.2	815.7	813.5	810.5	812.7	811.2	816.4	817.9	816.4
12.5°	760.2	753.6	737.3	729.2	720.3	713.6	721.8	715.8	736.6	742.5	758.7
15°	664.1	651.5	640.4	640.4	632.3	626.4	630.1	636.7	641.2	647.8	650.8
17.5°	599.7	594.6	585.7	580.5	578.3	576.1	576.1	579.0	588.7	587.9	593.8
20°	545.0	542.1	537.6	531.0	528.8	527.3	527.3	527.3	533.9	539.8	543.5
22.5°	507.3	505.1	502.1	493.3	488.8	487.3	491.0	493.3	498.4	502.9	506.6
25°	469.6	464.4	459.2	456.3	454.1	454.1	455.5	456.3	458.5	460.7	465.2
27.5°	438.5	434.8	427.4	419.3	419.3	417.1	418.6	420.0	425.2	432.6	436.3
30°	403.8	403.0	400.1	397.1	394.2	392.7	395.6	397.9	398.6	402.3	402.3
32.5°	378.6	373.5	368.3	365.3	363.8	363.1	363.8	366.8	366.8	371.2	376.4
35°	353.5	350.5	345.4	340.2	338.7	335.0	338.0	340.9	346.1	348.3	350.5
37.5°	326.1	322.4	320.2	318.7	315.8	316.5	314.3	318.7	323.2	322.4	323.9
40°	305.4	298.8	292.1	291.4	290.6	289.9	289.9	290.6	293.6	296.5	301.0
42.5°	278.8	276.6	270.7	264.7	263.3	261.8	260.3	263.3	269.2	274.4	276.6
45°	251.4	248.5	247.0	242.6	239.6	238.9	237.4	241.1	246.3	248.5	250.0
47.5°	226.3	225.6	221.1	221.9	219.6	220.4	219.6	221.9	221.9	224.1	225.6
50°	209.3	207.1	204.8	203.4	201.1	201.1	200.4	201.1	204.1	207.1	206.3
52.5°	192.3	188.6	187.8	187.1	185.6	187.1	184.9	185.6	188.6	190.1	189.3
55°	172.3	171.6	170.1	168.6	167.9	167.1	167.1	167.1	170.1	172.3	173.0
57.5°	156.8	153.1	150.1	150.1	147.2	146.4	147.9	148.6	150.9	152.3	153.8
60°	135.3	133.9	129.4	127.2	122.8	122.0	122.0	125.0	128.7	133.9	135.3
62.5°	112.4	110.2	109.4	109.4	109.4	109.4	109.4	109.4	109.4	110.2	110.2
65°	99.8	100.6	99.8	99.1	99.8	99.8	99.1	99.1	99.1	99.8	100.6
67.5°	89.5	88.7	89.5	88.7	88.0	88.0	87.3	88.0	88.7	89.5	89.5
70°	77.6	77.6	76.9	77.6	76.9	76.2	75.4	75.4	76.9	77.6	77.6
72.5°	66.6	66.6	65.8	65.8	64.3	64.3	65.1	64.3	64.3	66.6	66.6
75°	55.5	54.7	54.0	54.0	53.2	53.2	53.2	52.5	54.0	54.0	54.7
77.5°	43.6	43.6	43.6	42.9	42.9	42.2	42.2	42.9	42.9	42.9	43.6
80°	33.3	33.3	33.3	32.5	31.8	31.8	31.8	31.8	31.8	32.5	31.8
82.5°	22.9	22.9	22.9	22.9	22.9	22.2	22.2	22.2	22.9	22.9	22.2
85°	14.1	13.3	14.1	14.1	13.3	14.1	13.3	13.3	12.6	12.6	13.3
87.5°	5.9	5.2	4.4	4.4	5.2	4.4	4.4	4.4	5.2	4.4	4.4
90°	17.4	17.6	17.9	18.2	18.5	18.8	18.5	18.2	17.9	17.6	17.4
92.5°	18.1	18.2	18.3	18.5	18.6	18.8	18.6	18.5	18.3	18.2	18.1
95°	30.6	30.5	30.4	30.2	30.1	29.9	30.1	30.2	30.4	30.5	30.6
97.5°	37.5	37.6	37.7	37.9	38.0	38.2	38.0	37.9	37.7	37.6	37.5
100°	45.2	45.3	45.6	45.9	46.2	46.5	46.2	45.9	45.6	45.3	45.2
102.5°	48.6	48.8	49.3	49.8	50.2	50.7	50.2	49.8	49.3	48.8	48.6
105°	50.0	50.3	50.9	51.6	52.2	52.8	52.2	51.6	50.9	50.3	50.0
107.5°	51.4	51.7	52.3	53.0	53.6	54.2	53.6	53.0	52.3	51.7	51.4
110°	52.1	52.4	53.0	53.7	54.3	54.9	54.3	53.7	53.0	52.4	52.1

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	53.5	53.7	54.2	54.7	55.1	55.6	55.1	54.7	54.2	53.7	53.5
115°	107.0	101.4	90.3	79.2	68.1	57.0	68.1	79.2	90.3	101.4	107.0
117.5°	366.8	346.6	306.1	265.7	225.2	184.8	225.2	265.7	306.1	346.6	366.8
120°	517.5	507.1	486.2	465.4	444.5	423.7	444.5	465.4	486.2	507.1	517.5
122.5°	554.3	554.4	554.5	554.7	554.8	555.0	554.8	554.7	554.5	554.4	554.3
125°	591.8	592.0	592.5	593.0	593.4	593.9	593.4	593.0	592.5	592.0	591.8
127.5°	627.9	628.0	628.1	628.3	628.4	628.6	628.4	628.3	628.1	628.0	627.9
130°	661.3	661.2	661.1	660.9	660.8	660.6	660.8	660.9	661.1	661.2	661.3
132.5°	692.5	692.4	692.3	692.1	692.0	691.8	692.0	692.1	692.3	692.4	692.5
135°	723.1	722.9	722.6	722.3	722.0	721.7	722.0	722.3	722.6	722.9	723.1
137.5°	751.6	751.4	750.9	750.4	750.0	749.5	750.0	750.4	750.9	751.4	751.6
140°	778.7	778.3	777.5	776.8	776.0	775.2	776.0	776.8	777.5	778.3	778.7
142.5°	803.7	803.3	802.5	801.8	801.0	800.2	801.0	801.8	802.5	803.3	803.7
145°	826.6	826.2	825.4	824.7	823.9	823.1	823.9	824.7	825.4	826.2	826.6
147.5°	846.8	846.5	845.9	845.2	844.6	844.0	844.6	845.2	845.9	846.5	846.8
150°	866.2	865.8	865.0	864.3	863.5	862.7	863.5	864.3	865.0	865.8	866.2
152.5°	883.6	883.1	882.0	880.9	879.8	878.7	879.8	880.9	882.0	883.1	883.6
155°	898.8	898.2	897.0	895.7	894.5	893.3	894.5	895.7	897.0	898.2	898.8
157.5°	912.7	912.1	910.9	909.6	908.4	907.2	908.4	909.6	910.9	912.1	912.7
160°	923.9	923.4	922.3	921.2	920.1	919.0	920.1	921.2	922.3	923.4	923.9
162.5°	935.0	934.3	932.9	931.5	930.1	928.7	930.1	931.5	932.9	934.3	935.0
165°	943.3	942.8	941.7	940.6	939.5	938.4	939.5	940.6	941.7	942.8	943.3
167.5°	950.9	950.2	948.8	947.5	946.1	944.7	946.1	947.5	948.8	950.2	950.9
170°	956.5	955.8	954.4	953.1	951.7	950.3	951.7	953.1	954.4	955.8	956.5
172.5°	960.7	960.0	958.6	957.2	955.8	954.4	955.8	957.2	958.6	960.0	960.7
175°	963.4	962.6	961.1	959.6	958.0	956.5	958.0	959.6	961.1	962.6	963.4
177.5°	964.1	963.4	962.0	960.7	959.3	957.9	959.3	960.7	962.0	963.4	964.1
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1013.9	1017.6	1016.1	1008.0	1016.1	1018.3	1022.7	1027.2	1030.1	1034.6	1038.3
5°	950.3	957.7	962.1	957.7	972.5	974.7	985.0	990.9	999.8	1007.2	1013.1
7.5°	890.4	896.3	905.2	906.6	915.5	925.9	940.7	955.5	969.5	976.9	983.6
10°	826.0	836.4	849.7	846.7	860.1	876.3	891.9	915.5	927.3	940.7	952.5
12.5°	761.7	768.4	786.1	792.0	811.2	823.8	845.3	860.1	889.6	905.2	915.5
15°	649.3	676.7	698.8	725.5	750.6	774.3	793.5	820.1	846.0	857.8	874.8
17.5°	598.3	610.8	624.1	637.5	670.0	712.2	746.2	775.0	797.2	812.7	832.7
20°	545.0	557.6	572.4	585.0	604.9	635.2	677.4	726.9	753.6	769.8	789.1
22.5°	507.3	519.1	528.8	539.8	555.4	577.6	609.4	670.7	706.2	726.2	743.2
25°	466.6	481.4	491.8	499.9	512.5	536.9	562.8	597.5	661.1	676.7	700.3
27.5°	438.5	443.0	454.8	467.4	479.9	493.3	519.9	549.5	592.4	626.4	655.2
30°	405.3	416.3	427.4	432.6	443.7	462.9	479.2	511.0	544.3	570.9	605.7
32.5°	380.1	386.8	394.2	406.7	417.1	430.4	446.7	473.3	501.4	518.4	545.0
35°	352.0	356.4	372.0	377.2	387.5	400.8	417.1	437.8	468.1	481.4	500.7
37.5°	325.4	335.7	340.2	352.0	361.6	374.9	386.8	410.4	430.4	445.9	463.7
40°	304.7	309.1	317.3	327.6	335.7	346.1	360.9	377.9	399.3	411.9	427.4
42.5°	279.5	283.2	293.6	299.5	312.8	322.4	331.3	352.0	371.2	380.8	396.4
45°	252.2	261.0	267.7	279.5	286.9	298.8	309.9	324.6	342.4	353.5	362.4
47.5°	228.5	237.4	244.0	255.1	267.0	272.1	284.0	299.5	315.8	324.6	337.2
50°	209.3	212.2	224.8	230.0	242.6	252.9	261.0	274.4	292.1	297.3	307.6
52.5°	190.8	193.0	201.1	207.8	218.9	227.8	238.1	250.7	265.5	273.6	281.8
55°	174.5	176.0	179.7	187.1	194.5	205.6	215.2	227.0	239.6	248.5	255.9
57.5°	156.0	159.0	162.0	166.4	173.8	184.1	194.5	205.6	215.9	221.9	231.5
60°	134.6	139.0	144.2	149.4	154.6	162.0	173.8	184.1	193.8	198.9	206.3
62.5°	111.7	120.5	125.0	130.9	135.3	142.0	150.9	162.7	169.3	176.0	181.9
65°	100.6	101.3	102.1	108.0	116.1	122.8	130.9	139.8	150.1	154.6	159.0
67.5°	89.5	90.2	91.7	92.4	95.4	102.8	111.7	121.3	129.4	132.4	136.8
70°	78.4	78.4	81.3	82.1	82.8	83.6	91.0	100.6	108.0	111.7	116.8
72.5°	66.6	67.3	68.8	69.5	71.0	72.5	74.7	79.9	88.7	92.4	98.4
75°	54.7	55.5	56.2	56.9	59.2	59.9	62.1	65.1	68.8	73.2	76.9
77.5°	43.6	43.6	44.4	45.8	47.3	48.1	50.3	51.8	53.2	55.5	58.4
80°	32.5	33.3	33.3	34.8	34.8	35.5	36.2	38.5	39.9	41.4	42.9
82.5°	22.2	23.7	23.7	23.7	24.4	25.1	25.9	25.9	27.4	28.1	30.3
85°	13.3	14.1	14.1	14.1	13.3	14.8	14.8	15.5	15.5	15.5	16.3
87.5°	5.2	4.4	5.2	5.2	5.2	5.9	5.2	5.2	5.9	6.7	6.7
90°	17.0	16.2	15.5	14.7	13.9	12.7	11.4	10.2	8.9	8.3	7.5
92.5°	17.9	17.6	17.3	17.0	16.7	16.2	15.8	15.3	14.8	14.6	14.9
95°	30.2	29.4	28.7	27.9	27.1	26.0	24.9	23.8	22.7	22.2	24.8
97.5°	37.3	36.8	36.3	35.9	35.4	32.9	30.5	28.0	25.5	24.3	30.6
100°	44.6	43.3	42.1	40.8	39.6	37.0	34.4	31.7	29.1	27.8	38.4
102.5°	47.8	46.1	44.4	42.7	41.0	69.1	97.2	125.3	153.4	167.4	167.6
105°	49.2	47.5	45.8	44.1	42.4	84.5	126.7	168.8	210.9	232.0	229.7
107.5°	50.6	48.9	47.2	45.5	43.8	95.8	147.8	199.9	251.9	277.9	276.0
110°	59.8	75.3	90.7	106.2	121.6	166.2	210.8	255.4	300.0	322.3	320.7

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	86.8	153.3	219.8	286.4	352.9	355.5	358.1	360.8	363.4	364.7	363.3
115°	142.7	214.2	285.7	357.1	428.6	424.7	420.9	417.0	413.1	411.2	409.9
117.5°	377.8	399.9	422.0	444.0	466.1	463.5	460.9	458.2	455.6	454.3	452.8
120°	516.6	514.7	512.9	511.0	509.2	506.4	503.6	500.9	498.1	496.7	495.5
122.5°	553.8	552.9	552.0	551.0	550.1	547.0	544.0	540.9	537.8	536.3	535.1
125°	591.3	590.2	589.1	588.1	587.0	584.1	581.1	578.2	575.3	573.8	572.8
127.5°	627.1	625.6	624.1	622.5	621.0	618.7	616.4	614.1	611.8	610.6	609.5
130°	660.4	658.7	657.0	655.3	653.6	651.9	650.2	648.5	646.8	646.0	644.8
132.5°	691.8	690.4	689.1	687.7	686.3	684.6	682.9	681.2	679.5	678.7	677.7
135°	722.3	720.8	719.3	717.7	716.2	714.8	713.4	712.0	710.6	709.9	708.7
137.5°	750.8	749.3	747.7	746.2	744.6	743.1	741.5	740.0	738.5	737.7	736.8
140°	778.0	776.6	775.2	773.8	772.4	770.7	769.0	767.3	765.6	764.8	764.2
142.5°	803.1	801.8	800.6	799.3	798.1	796.1	794.1	792.1	790.1	789.1	788.6
145°	826.1	825.0	823.9	822.8	821.7	819.1	816.5	813.8	811.2	809.9	810.0
147.5°	846.4	845.6	844.9	844.1	843.3	840.7	838.1	835.4	832.8	831.5	831.7
150°	865.7	864.8	863.9	862.9	862.0	859.5	857.1	854.6	852.1	850.9	851.4
152.5°	883.1	882.2	881.3	880.3	879.4	877.1	874.8	872.5	870.2	869.0	869.6
155°	898.3	897.4	896.5	895.6	894.7	892.8	891.0	889.1	887.2	886.3	887.0
157.5°	912.2	911.1	910.0	909.0	907.9	906.5	905.1	903.7	902.3	901.6	902.2
160°	923.4	922.5	921.6	920.6	919.7	918.8	917.8	916.9	916.0	915.5	916.0
162.5°	934.5	933.4	932.3	931.2	930.1	929.3	928.5	927.8	927.0	926.6	927.1
165°	942.8	941.7	940.6	939.5	938.4	938.0	937.5	937.1	936.6	936.4	936.9
167.5°	950.4	949.3	948.2	947.2	946.1	945.6	945.2	944.7	944.2	944.0	944.5
170°	956.0	954.9	953.8	952.7	951.6	951.3	951.0	950.7	950.4	950.3	950.8
172.5°	960.2	959.1	958.0	956.9	955.8	955.5	955.2	954.9	954.6	954.4	954.9
175°	962.9	961.8	960.7	959.7	958.6	958.3	958.0	957.7	957.4	957.2	957.7
177.5°	963.6	962.5	961.4	960.4	959.3	959.1	959.0	958.8	958.7	958.6	959.1
180°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0

TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1064.2	1064.2	1064.2	1064.2
2.5°	1044.9	1042.7	1056.0	1070.8
5°	1023.5	1027.2	1044.2	1064.9
7.5°	1001.3	1009.4	1029.4	1056.8
10°	970.2	985.0	1015.4	1043.5
12.5°	939.9	959.9	988.7	1022.0
15°	905.9	928.1	963.6	1003.5
17.5°	868.2	893.3	934.7	978.4
20°	828.3	861.5	905.2	952.5
22.5°	783.9	823.8	868.9	921.4
25°	741.0	784.6	829.7	890.4
27.5°	698.8	741.7	792.0	853.4
30°	656.7	695.9	749.9	815.7
32.5°	611.6	652.3	709.2	776.5
35°	570.2	610.8	664.1	730.6
37.5°	525.8	569.4	620.5	689.2
40°	474.0	525.1	574.6	640.4
42.5°	431.1	485.1	533.2	595.3
45°	397.1	448.1	488.1	548.7
47.5°	365.3	406.7	447.4	503.6
50°	335.0	366.8	409.0	459.2
52.5°	303.9	331.3	367.5	414.9
55°	275.8	301.7	334.3	370.5
57.5°	250.0	268.4	301.0	333.5
60°	221.1	240.3	265.5	292.8
62.5°	196.7	211.5	235.2	258.1
65°	170.8	184.9	202.6	224.1
67.5°	147.2	159.7	173.8	190.8
70°	125.7	135.3	145.7	160.5
72.5°	102.8	113.1	122.8	134.6
75°	84.3	88.7	96.9	105.0
77.5°	65.1	71.0	75.4	82.1
80°	46.6	51.8	53.2	58.4
82.5°	31.1	34.0	37.0	38.5
85°	17.7	19.2	22.2	22.9
87.5°	6.7	7.4	8.9	10.4
90°	5.8	4.1	2.4	0.7
92.5°	15.5	16.2	16.8	17.4
95°	29.9	35.0	40.1	45.2
97.5°	43.3	56.0	68.6	81.3
100°	59.5	80.6	101.8	122.9
102.5°	167.9	168.2	168.5	168.8
105°	225.1	220.4	215.8	211.2
107.5°	272.1	268.2	264.4	260.5
110°	317.4	314.2	310.9	307.7



TEST NUMBER: P999792

CATALOG NUMBER: SA2XXRDIP-B485D725UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	360.5	357.8	355.0	352.2
115°	407.3	404.6	402.0	399.4
117.5°	449.7	446.6	443.5	440.4
120°	493.2	490.9	488.5	486.2
122.5°	532.6	530.1	527.6	525.1
125°	570.8	568.7	566.7	564.7
127.5°	607.4	605.2	603.1	600.9
130°	642.3	639.8	637.4	634.9
132.5°	675.7	673.6	671.6	669.6
135°	706.2	703.7	701.3	698.8
137.5°	734.9	733.1	731.2	729.4
140°	762.9	761.7	760.4	759.2
142.5°	787.5	786.4	785.3	784.2
145°	810.1	810.3	810.4	810.6
147.5°	832.2	832.7	833.1	833.6
150°	852.5	853.6	854.7	855.8
152.5°	870.8	872.1	873.3	874.5
155°	888.4	889.8	891.2	892.6
157.5°	903.5	904.7	906.0	907.2
160°	916.9	917.8	918.8	919.7
162.5°	928.0	928.9	929.9	930.8
165°	937.8	938.7	939.6	940.5
167.5°	945.4	946.3	947.3	948.2
170°	951.7	952.6	953.5	954.4
172.5°	955.8	956.7	957.7	958.6
175°	958.8	959.9	961.0	962.1
177.5°	960.2	961.3	962.3	963.4
180°	960.0	960.0	960.0	960.0

(END OF REPORT)