

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: P1010912

Luminaire Tested: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010912
REPORT IS A COMBINATION OF REPORTS P993288 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

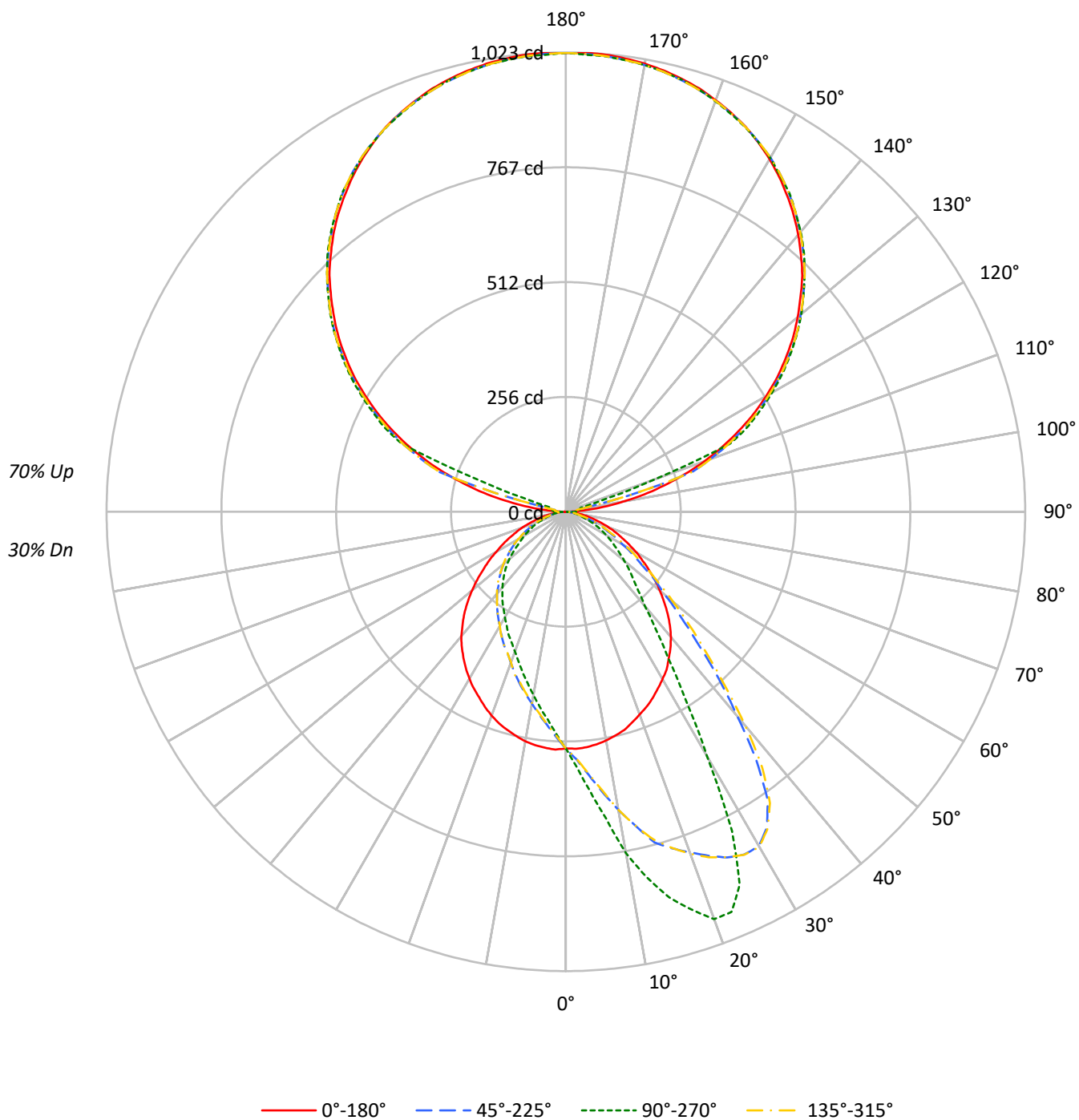
Lumens per Lamp: N/A
Luminaire Lumens: 4429.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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



TEST NUMBER: P1010912

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	94	90	86	83	84	80	77	75	64	61	60	48	47	46	34	33	32
2	85	79	73	68	76	71	66	62	56	53	50	42	40	39	30	29	28
3	78	69	62	57	70	62	57	52	50	46	42	38	35	33	27	25	24
4	72	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21
5	66	55	47	41	59	50	43	38	40	35	31	30	27	25	22	20	18
6	60	49	41	36	54	44	38	33	36	31	27	28	24	22	20	18	16
7	56	44	37	31	50	40	34	29	32	28	24	25	22	19	18	16	15
8	52	40	33	28	46	36	30	26	30	25	21	23	20	17	17	15	13
9	48	37	29	25	43	33	27	23	27	22	19	21	18	15	16	13	12
10	45	33	27	22	40	30	24	20	25	20	17	19	16	14	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5672	5672	5672	5672
5°	5675	6532	5690	4846
10°	5626	7885	5650	4233
15°	5568	8949	5568	3732
20°	5453	9653	5484	3311
25°	5370	9171	5359	3021
30°	5273	6354	5262	2737
35°	5155	4079	5132	2524
40°	5010	2880	4985	2311
45°	4757	2305	4749	2104
50°	4446	1929	4431	1862
55°	4095	1590	4062	1579
60°	3751	1314	3714	1343
65°	3348	1052	3370	1138
70°	2974	730	3057	921
75°	2522	542	2625	707
80°	2009	358	2177	531
85°	1431	171	1556	330

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 7571 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.2
10°-20°	162.0	3.7
20°-30°	255.1	5.8
30°-40°	265.3	6.0
40°-50°	226.9	5.1
50°-60°	173.0	3.9
60°-70°	110.9	2.5
70°-80°	53.1	1.2
80°-90°	16.0	0.4
90°-100°	36.0	0.8
100°-110°	174.2	3.9
110°-120°	426.9	9.6
120°-130°	541.9	12.2
130°-140°	578.9	13.1
140°-150°	541.4	12.2
150°-160°	436.7	9.9
160°-170°	281.8	6.4
170°-180°	97.1	2.2
0°-30°	468.8	10.6
0°-40°	734.1	16.6
0°-60°	1134.1	25.6
0°-90°	1314.1	29.7
90°-120°	637.1	14.4
90°-150°	2299.4	51.9
90°-180°	3115.0	70.3
0°-180°	4429.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	527	527	527	527	527	
5°	526	626	528	464	526	50
15°	503	889	503	371	503	141
25°	457	916	456	302	457	211
35°	399	397	397	246	399	250
45°	320	212	320	194	320	247
55°	226	133	224	132	226	203
65°	138	77	139	83	138	138
75°	66	32	69	42	66	72
85°	15	8	16	15	15	17
90°	1	23	1	23	1	3
95°	46	29	46	29	46	55
105°	226	33	226	33	226	240
115°	424	446	424	446	424	419
125°	598	610	598	610	598	534
135°	745	752	745	752	745	573
145°	859	868	859	868	859	538
155°	947	945	947	945	947	436
165°	998	996	998	996	998	282
175°	1022	1018	1022	1018	1022	97
180°	1022	1022	1022	1022	1022	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	528.2	531.9	534.6	536.4	540.9	543.6	545.8	549.9	549.9	550.8	552.6
5°	526.4	534.1	539.5	546.7	556.2	560.7	567.0	572.5	580.1	584.2	588.2
7.5°	522.4	533.2	544.5	555.3	569.3	578.3	584.6	598.6	608.5	620.7	630.2
10°	517.0	531.9	546.3	563.0	581.9	595.5	604.9	623.4	642.4	659.5	674.0
12.5°	510.2	528.2	549.0	569.3	595.9	609.4	624.8	647.8	674.9	696.5	715.9
15°	503.0	523.7	547.2	572.0	605.4	624.3	646.4	674.4	704.6	735.8	762.4
17.5°	491.7	517.9	544.0	580.1	619.4	630.7	649.6	687.9	725.4	753.4	785.8
20°	480.4	509.8	542.7	575.2	617.6	643.7	661.3	701.9	742.1	775.9	807.0
22.5°	470.1	500.7	535.0	576.1	615.8	641.9	664.0	706.4	752.9	790.8	829.1
25°	457.4	490.8	528.7	567.5	615.8	635.6	660.0	709.1	758.3	802.1	849.4
27.5°	443.9	477.7	515.2	554.9	599.1	628.4	652.3	705.1	765.1	812.0	860.7
30°	430.4	465.1	501.2	536.8	586.4	614.4	641.9	700.1	768.7	822.4	859.8
32.5°	417.3	446.6	482.2	517.0	566.1	596.8	627.9	695.2	770.0	815.2	833.2
35°	399.2	429.9	458.8	495.8	545.4	575.6	612.2	694.7	764.2	792.1	783.1
37.5°	382.5	408.3	435.8	468.7	519.7	558.9	596.8	683.0	744.8	746.6	695.6
40°	364.0	385.2	408.3	443.0	498.0	536.8	577.9	664.9	709.6	683.0	593.2
42.5°	342.8	361.8	379.8	413.7	473.7	517.0	561.2	642.4	658.6	597.3	503.9
45°	320.3	335.6	352.3	388.0	448.0	490.8	535.0	607.6	591.0	504.3	415.5
47.5°	296.8	309.9	326.2	358.6	420.4	464.2	506.1	558.0	515.6	422.7	348.3
50°	273.4	283.7	299.5	332.9	392.5	432.2	471.0	504.8	445.2	362.7	287.8
52.5°	250.4	258.5	274.7	303.1	360.9	398.8	426.7	439.8	379.4	299.5	249.9
55°	226.0	235.0	245.9	274.7	332.0	360.0	378.5	378.0	315.8	254.0	206.6
57.5°	202.5	210.7	220.1	249.0	295.5	314.4	330.2	322.5	263.4	208.0	177.3
60°	181.8	186.3	196.7	221.0	256.2	272.5	281.5	268.4	215.2	175.5	146.6
62.5°	159.2	163.8	172.3	195.3	217.0	225.6	233.2	216.5	177.7	143.0	125.4
65°	138.5	144.4	149.8	168.3	180.0	190.4	189.5	175.5	138.9	116.4	102.0
67.5°	120.4	122.7	127.2	138.5	143.9	151.6	152.0	136.2	111.9	94.7	86.2
70°	101.0	103.3	106.5	111.9	115.5	117.3	116.4	102.4	84.4	74.0	66.3
72.5°	84.4	83.9	86.2	86.2	89.8	89.3	86.6	75.8	64.1	55.5	51.0
75°	66.3	66.8	67.2	66.3	65.0	63.2	60.9	52.8	45.1	41.1	37.0
77.5°	51.9	51.0	51.4	48.3	46.5	44.7	41.5	37.4	31.1	30.2	28.4
80°	37.0	36.5	36.1	34.7	30.7	28.9	26.6	24.4	23.0	22.1	21.7
82.5°	24.8	24.8	23.9	21.2	18.9	17.6	17.1	16.2	14.9	14.9	14.4
85°	14.9	14.4	13.5	10.8	9.5	9.5	9.5	9.5	8.6	8.6	8.1
87.5°	5.9	5.4	4.1	4.1	3.6	3.6	3.6	3.2	3.2	2.7	2.7
90°	0.8	2.5	4.2	5.9	7.6	8.4	9.5	11.7	13.8	16.0	18.2
92.5°	17.5	16.5	15.5	14.4	13.4	12.9	13.7	15.2	16.7	18.2	19.7
95°	46.3	39.4	32.5	25.6	18.7	15.2	16.1	18.0	19.8	21.7	23.5
97.5°	84.3	79.6	74.8	70.1	65.4	63.0	58.7	50.1	41.5	32.9	24.3
100°	128.3	131.7	135.1	138.4	141.8	143.5	130.3	104.0	77.7	51.4	25.1
102.5°	178.4	180.6	182.8	185.0	187.2	188.3	173.6	144.3	114.9	85.6	56.2
105°	226.2	228.1	229.9	231.8	233.7	234.6	227.0	211.8	196.6	181.4	166.2
107.5°	277.1	278.6	280.1	281.6	283.1	283.9	285.2	287.7	290.2	292.8	295.3
110°	327.9	329.3	330.6	332.0	333.3	334.0	334.9	336.8	338.7	340.5	342.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	376.5	377.7	378.9	380.0	381.2	381.8	382.7	384.6	386.5	388.3	390.2
115°	424.3	425.3	426.3	427.4	428.4	428.9	429.7	431.2	432.7	434.2	435.7
117.5°	471.4	472.6	473.8	474.9	476.1	476.7	477.1	478.0	478.8	479.7	480.5
120°	514.7	516.2	517.7	519.2	520.7	521.5	521.8	522.3	522.8	523.3	523.8
122.5°	558.7	559.9	561.1	562.2	563.4	564.0	564.3	565.0	565.7	566.4	567.1
125°	598.2	599.6	600.9	602.3	603.6	604.3	604.6	605.3	606.0	606.6	607.3
127.5°	637.7	639.0	640.4	641.7	643.0	643.7	644.1	645.0	645.8	646.7	647.5
130°	674.1	675.5	676.8	678.2	679.5	680.2	680.5	681.2	681.9	682.5	683.2
132.5°	709.0	710.4	711.7	713.1	714.4	715.1	715.4	715.9	716.4	716.9	717.4
135°	744.7	745.7	746.7	747.7	748.7	749.2	749.5	750.2	750.9	751.6	752.3
137.5°	775.1	776.4	777.8	779.1	780.4	781.1	781.3	781.6	782.0	782.3	782.7
140°	805.4	806.4	807.4	808.5	809.5	810.0	810.3	810.8	811.3	811.8	812.3
142.5°	833.5	834.5	835.5	836.6	837.6	838.1	838.3	838.8	839.3	839.8	840.3
145°	859.3	860.5	861.7	862.8	864.0	864.6	864.8	865.1	865.5	865.8	866.2
147.5°	884.4	885.2	886.1	886.9	887.8	888.2	888.4	888.7	889.0	889.4	889.7
150°	907.1	907.6	908.1	908.6	909.1	909.4	909.6	909.9	910.2	910.6	910.9
152.5°	927.6	927.8	928.0	928.1	928.3	928.4	928.5	928.7	928.8	929.0	929.2
155°	946.6	946.3	945.9	945.6	945.3	945.1	945.2	945.4	945.5	945.7	945.9
157.5°	961.8	961.8	961.8	961.8	961.8	961.8	961.7	961.5	961.4	961.2	961.0
160°	975.5	975.3	975.1	975.0	974.8	974.7	974.6	974.4	974.3	974.1	973.9
162.5°	988.4	987.9	987.4	986.9	986.4	986.1	986.0	985.8	985.7	985.5	985.3
165°	998.2	997.7	997.2	996.7	996.2	996.0	995.9	995.7	995.6	995.4	995.2
167.5°	1006.6	1005.9	1005.3	1004.6	1003.9	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6
170°	1013.4	1012.7	1012.1	1011.4	1010.7	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4
172.5°	1018.0	1017.2	1016.3	1015.5	1014.6	1014.2	1014.3	1014.4	1014.6	1014.7	1014.9
175°	1021.8	1021.0	1020.1	1019.3	1018.4	1018.0	1018.1	1018.2	1018.4	1018.5	1018.7
177.5°	1023.3	1022.5	1021.6	1020.8	1019.9	1019.5	1019.6	1019.8	1019.9	1020.1	1020.3
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	556.2	556.2	560.3	564.3	562.1	563.4	568.4	566.6	570.2	569.8	571.1
5°	598.2	603.1	607.2	615.8	617.1	615.8	624.3	626.6	630.7	625.7	627.9
7.5°	645.5	655.9	665.8	678.5	682.5	683.4	687.9	694.3	699.7	689.7	694.7
10°	691.6	707.3	727.6	738.9	748.8	752.5	756.1	760.1	766.4	772.3	767.8
12.5°	741.2	764.2	783.6	803.9	816.1	814.7	825.1	827.8	832.7	834.1	835.9
15°	781.8	814.3	826.4	856.7	859.4	868.4	880.1	890.5	891.8	889.1	889.1
17.5°	820.6	848.5	870.2	894.6	899.5	907.2	922.1	927.0	928.8	928.4	928.4
20°	852.1	870.6	907.2	927.5	935.6	945.5	955.9	962.2	963.6	965.4	962.7
22.5°	872.9	900.9	930.6	947.3	954.1	957.7	964.5	966.3	964.0	964.5	964.9
25°	889.1	916.7	934.7	939.2	938.8	934.2	929.3	920.7	919.8	916.2	909.0
27.5°	893.6	904.0	901.8	883.3	864.8	863.0	833.2	817.0	798.5	801.2	790.8
30°	869.3	855.8	823.7	776.8	757.4	725.8	692.5	657.7	644.2	629.3	656.8
32.5°	809.7	761.5	704.6	643.7	611.3	583.3	547.6	522.4	507.9	495.8	519.2
35°	720.0	644.6	569.3	511.6	484.9	459.7	426.3	413.7	395.6	397.4	399.7
37.5°	604.5	521.5	464.6	407.8	390.2	379.8	355.5	336.1	329.8	328.0	328.0
40°	496.2	428.1	377.6	332.9	319.4	310.8	291.4	282.4	275.6	273.8	276.1
42.5°	410.5	352.3	313.1	283.3	273.8	263.0	254.9	243.6	242.2	239.1	243.1
45°	344.6	294.1	264.8	243.1	235.0	231.0	221.9	215.2	212.5	212.0	215.2
47.5°	292.3	253.1	227.4	213.8	207.5	203.5	195.8	193.1	190.4	191.3	189.9
50°	245.4	216.1	199.4	187.2	183.2	179.1	174.1	171.4	170.1	170.1	169.6
52.5°	210.7	186.3	175.5	164.2	162.4	160.1	154.7	152.9	150.7	150.2	152.0
55°	180.4	163.8	152.9	146.2	144.4	139.8	137.6	135.3	134.0	133.1	133.5
57.5°	154.3	141.6	134.4	128.6	125.4	123.6	119.5	119.1	118.2	118.2	117.7
60°	132.6	123.6	115.0	111.4	109.2	106.9	106.5	103.8	102.4	103.3	102.9
62.5°	112.3	105.1	100.1	96.1	94.7	92.9	91.6	90.7	89.3	89.8	89.8
65°	93.8	88.0	84.4	80.7	80.3	78.5	78.0	77.1	77.1	76.7	77.6
67.5°	77.1	73.1	69.9	67.7	66.3	66.8	65.0	63.6	63.6	63.2	64.5
70°	61.4	59.1	55.9	53.2	51.4	51.4	49.2	48.7	48.7	48.7	48.3
72.5°	47.4	43.3	42.0	41.1	41.1	41.1	40.1	40.1	39.7	40.1	39.7
75°	35.2	34.7	33.8	33.4	33.4	32.9	32.5	32.5	32.5	32.5	32.5
77.5°	27.5	27.5	26.6	26.2	26.2	26.2	25.7	25.7	25.3	25.3	25.3
80°	20.3	20.3	19.4	19.4	19.4	18.9	18.9	18.9	19.4	18.9	18.9
82.5°	14.0	14.0	13.5	14.0	13.5	13.1	13.1	13.1	12.6	13.1	13.1
85°	8.1	8.1	7.7	7.2	7.7	7.7	7.2	7.7	7.2	7.7	7.2
87.5°	3.2	2.7	2.7	2.7	2.3	2.7	2.3	2.3	2.7	2.3	2.7
90°	18.9	19.6	20.3	21.0	21.3	21.5	21.8	22.1	22.5	22.8	22.5
92.5°	20.9	22.1	23.3	24.5	25.1	25.2	25.3	25.5	25.6	25.8	25.6
95°	24.7	25.9	27.0	28.2	28.8	28.8	28.8	28.8	28.8	28.8	28.8
97.5°	25.7	27.0	28.4	29.7	30.4	30.5	30.6	30.8	30.9	31.1	30.9
100°	26.4	27.8	29.1	30.4	31.1	31.2	31.4	31.5	31.7	31.9	31.7
102.5°	50.6	45.0	39.5	33.9	31.1	31.3	31.6	31.9	32.3	32.6	32.3
105°	136.4	106.5	76.7	46.8	31.9	32.1	32.4	32.7	33.1	33.4	33.1
107.5°	269.3	243.3	217.4	191.4	178.4	167.3	145.2	123.1	101.0	78.9	101.0
110°	336.8	331.2	325.7	320.1	317.3	305.2	281.1	257.0	232.9	208.8	232.9

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	391.7	393.2	394.7	396.2	397.0	396.8	396.5	396.2	395.8	395.5	395.8
115°	437.4	439.1	440.8	442.5	443.3	443.6	444.3	445.0	445.7	446.4	445.7
117.5°	481.9	483.2	484.6	485.9	486.6	486.7	486.9	487.0	487.2	487.4	487.2
120°	525.2	526.5	527.9	529.2	529.9	529.9	529.9	529.9	529.9	529.9	529.9
122.5°	567.9	568.8	569.6	570.5	570.9	571.0	571.1	571.3	571.4	571.6	571.4
125°	607.6	608.0	608.3	608.6	608.8	609.0	609.3	609.6	610.0	610.3	610.0
127.5°	648.0	648.5	649.0	649.5	649.8	649.6	649.3	649.0	648.6	648.3	648.6
130°	683.9	684.5	685.2	685.9	686.2	686.0	685.7	685.4	685.0	684.7	685.0
132.5°	718.1	718.7	719.4	720.1	720.4	720.1	719.6	719.1	718.6	718.1	718.6
135°	752.8	753.3	753.8	754.3	754.6	754.3	753.8	753.3	752.8	752.3	752.8
137.5°	783.5	784.3	785.2	786.0	786.4	786.2	785.9	785.6	785.2	784.9	785.2
140°	813.0	813.6	814.3	815.0	815.3	815.1	814.8	814.5	814.1	813.8	814.1
142.5°	840.8	841.3	841.8	842.3	842.6	842.3	841.8	841.3	840.8	840.3	840.8
145°	866.5	866.9	867.2	867.5	867.7	867.7	867.7	867.7	867.7	867.7	867.7
147.5°	890.0	890.4	890.7	891.0	891.2	890.8	889.9	889.1	888.2	887.4	888.2
150°	911.3	911.6	912.0	912.3	912.5	912.2	911.7	911.2	910.7	910.2	910.7
152.5°	929.9	930.5	931.2	931.9	932.2	931.8	930.9	930.1	929.2	928.4	929.2
155°	946.7	947.6	948.4	949.3	949.7	949.2	948.2	947.1	946.1	945.1	946.1
157.5°	962.0	963.0	964.1	965.1	965.6	964.9	963.6	962.2	960.9	959.5	960.9
160°	974.9	975.9	977.0	978.0	978.5	977.9	976.7	975.6	974.4	973.2	974.4
162.5°	986.5	987.7	988.8	990.0	990.6	990.1	989.1	988.1	987.1	986.1	987.1
165°	996.6	997.9	999.3	1000.6	1001.3	1000.7	999.5	998.4	997.2	996.0	997.2
167.5°	1004.9	1006.3	1007.6	1008.9	1009.6	1008.9	1007.6	1006.3	1004.9	1003.6	1004.9
170°	1011.8	1013.1	1014.5	1015.8	1016.5	1015.8	1014.5	1013.1	1011.8	1010.4	1011.8
172.5°	1016.3	1017.6	1019.0	1020.3	1021.0	1020.2	1018.7	1017.2	1015.7	1014.2	1015.7
175°	1019.9	1021.1	1022.2	1023.4	1024.0	1023.3	1022.0	1020.7	1019.3	1018.0	1019.3
177.5°	1021.6	1023.0	1024.3	1025.6	1026.3	1025.5	1023.8	1022.1	1020.4	1018.7	1020.4
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	568.8	566.1	564.3	563.0	561.6	565.7	560.3	554.4	550.4	547.6	546.7
5°	628.4	622.5	617.6	613.5	614.4	614.4	604.9	594.6	585.5	580.6	575.2
7.5°	697.4	691.1	681.2	678.9	677.1	665.8	656.4	637.4	626.1	614.9	604.9
10°	766.0	757.9	748.4	745.2	740.7	726.7	712.3	687.9	674.0	653.2	640.1
12.5°	830.0	820.1	810.6	808.4	801.6	789.4	764.6	739.4	715.5	693.4	670.3
15°	883.7	881.0	866.6	857.6	842.7	826.0	820.6	786.3	756.1	733.1	691.6
17.5°	928.8	916.2	902.7	896.8	890.9	871.5	852.1	817.0	784.5	750.6	724.0
20°	964.9	950.9	941.5	932.9	930.2	908.1	877.4	846.3	810.6	772.8	738.0
22.5°	966.7	964.9	958.6	953.6	948.2	933.8	909.4	870.6	832.7	791.2	745.7
25°	929.3	926.6	944.6	940.1	943.7	938.3	925.2	892.7	848.5	799.8	753.8
27.5°	816.5	844.0	872.4	882.4	889.1	908.5	914.9	896.8	861.2	809.3	757.9
30°	663.1	699.7	745.7	770.5	789.4	825.5	872.4	878.3	861.6	820.1	757.0
32.5°	520.6	554.0	591.0	620.3	645.5	719.5	782.7	828.2	836.4	814.7	759.2
35°	419.5	434.0	469.2	497.1	531.4	594.6	669.0	742.5	792.1	794.9	752.5
37.5°	346.0	353.7	384.3	400.1	420.4	475.9	545.4	641.5	718.6	755.2	733.5
40°	286.5	304.0	321.6	330.7	345.1	383.4	450.2	525.5	621.2	688.8	704.2
42.5°	248.6	256.2	267.5	280.1	289.2	322.5	367.2	436.2	522.4	616.7	659.1
45°	219.2	221.9	233.7	241.8	251.3	274.7	306.3	364.0	439.8	532.8	604.9
47.5°	194.9	200.3	206.6	211.6	217.9	235.9	263.0	305.0	371.7	454.7	532.3
50°	173.2	176.4	184.5	186.8	191.3	203.9	224.7	256.7	311.7	378.0	458.3
52.5°	152.9	158.8	161.9	165.1	169.2	179.5	193.1	219.2	260.7	323.0	391.1
55°	137.1	138.9	143.5	146.2	149.3	156.5	168.3	187.7	220.1	269.8	334.3
57.5°	121.8	121.8	126.3	128.6	131.7	137.1	147.5	162.4	185.9	222.8	281.9
60°	105.6	106.0	109.6	112.3	113.2	118.6	127.2	138.9	157.0	184.1	232.3
62.5°	91.1	93.4	95.2	96.1	99.2	102.4	109.6	117.7	130.4	154.3	188.6
65°	78.9	79.4	80.7	81.7	83.0	86.6	92.0	97.4	108.3	125.9	153.8
67.5°	65.0	66.8	68.6	68.6	69.9	71.7	77.1	81.7	89.8	100.1	119.1
70°	48.7	49.6	52.3	53.7	55.5	58.6	61.4	64.1	70.4	78.0	92.5
72.5°	40.6	40.6	41.5	42.0	42.0	44.2	48.3	51.0	54.1	59.5	69.5
75°	32.5	32.5	33.8	33.4	34.3	35.2	35.6	37.4	39.2	43.3	49.2
77.5°	25.7	26.2	26.2	26.6	26.6	27.1	27.5	28.4	29.3	31.6	34.3
80°	18.9	19.4	19.4	19.8	19.8	20.3	20.8	21.2	22.1	23.0	24.4
82.5°	13.1	13.5	13.5	14.0	13.5	14.0	14.4	14.4	14.9	15.8	16.2
85°	7.7	7.7	8.1	7.7	7.7	7.7	8.1	8.1	8.6	9.9	9.9
87.5°	2.3	2.7	2.3	2.7	2.7	2.7	2.7	3.2	3.2	3.6	4.1
90°	22.1	21.8	21.5	21.3	21.0	20.3	19.6	18.9	18.2	16.0	13.8
92.5°	25.5	25.3	25.2	25.1	24.5	23.3	22.1	20.9	19.7	18.2	16.7
95°	28.8	28.8	28.8	28.8	28.2	27.0	25.9	24.7	23.5	21.7	19.8
97.5°	30.8	30.6	30.5	30.4	29.7	28.4	27.0	25.7	24.3	32.9	41.5
100°	31.5	31.4	31.2	31.1	30.4	29.1	27.8	26.4	25.1	51.4	77.7
102.5°	31.9	31.6	31.3	31.1	33.9	39.5	45.0	50.6	56.2	85.6	114.9
105°	32.7	32.4	32.1	31.9	46.8	76.7	106.5	136.4	166.2	181.4	196.6
107.5°	123.1	145.2	167.3	178.4	191.4	217.4	243.3	269.3	295.3	292.8	290.2
110°	257.0	281.1	305.2	317.3	320.1	325.7	331.2	336.8	342.4	340.5	338.7

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	396.2	396.5	396.8	397.0	396.2	394.7	393.2	391.7	390.2	388.3	386.5
115°	445.0	444.3	443.6	443.3	442.5	440.8	439.1	437.4	435.7	434.2	432.7
117.5°	487.0	486.9	486.7	486.6	485.9	484.6	483.2	481.9	480.5	479.7	478.8
120°	529.9	529.9	529.9	529.9	529.2	527.9	526.5	525.2	523.8	523.3	522.8
122.5°	571.3	571.1	571.0	570.9	570.5	569.6	568.8	567.9	567.1	566.4	565.7
125°	609.6	609.3	609.0	608.8	608.6	608.3	608.0	607.6	607.3	606.6	606.0
127.5°	649.0	649.3	649.6	649.8	649.5	649.0	648.5	648.0	647.5	646.7	645.8
130°	685.4	685.7	686.0	686.2	685.9	685.2	684.5	683.9	683.2	682.5	681.9
132.5°	719.1	719.6	720.1	720.4	720.1	719.4	718.7	718.1	717.4	716.9	716.4
135°	753.3	753.8	754.3	754.6	754.3	753.8	753.3	752.8	752.3	751.6	750.9
137.5°	785.6	785.9	786.2	786.4	786.0	785.2	784.3	783.5	782.7	782.3	782.0
140°	814.5	814.8	815.1	815.3	815.0	814.3	813.6	813.0	812.3	811.8	811.3
142.5°	841.3	841.8	842.3	842.6	842.3	841.8	841.3	840.8	840.3	839.8	839.3
145°	867.7	867.7	867.7	867.7	867.5	867.2	866.9	866.5	866.2	865.8	865.5
147.5°	889.1	889.9	890.8	891.2	891.0	890.7	890.4	890.0	889.7	889.4	889.0
150°	911.2	911.7	912.2	912.5	912.3	912.0	911.6	911.3	910.9	910.6	910.2
152.5°	930.1	930.9	931.8	932.2	931.9	931.2	930.5	929.9	929.2	929.0	928.8
155°	947.1	948.2	949.2	949.7	949.3	948.4	947.6	946.7	945.9	945.7	945.5
157.5°	962.2	963.6	964.9	965.6	965.1	964.1	963.0	962.0	961.0	961.2	961.4
160°	975.6	976.7	977.9	978.5	978.0	977.0	975.9	974.9	973.9	974.1	974.3
162.5°	988.1	989.1	990.1	990.6	990.0	988.8	987.7	986.5	985.3	985.5	985.7
165°	998.4	999.5	1000.7	1001.3	1000.6	999.3	997.9	996.6	995.2	995.4	995.6
167.5°	1006.3	1007.6	1008.9	1009.6	1008.9	1007.6	1006.3	1004.9	1003.6	1003.6	1003.6
170°	1013.1	1014.5	1015.8	1016.5	1015.8	1014.5	1013.1	1011.8	1010.4	1010.4	1010.4
172.5°	1017.2	1018.7	1020.2	1021.0	1020.3	1019.0	1017.6	1016.3	1014.9	1014.7	1014.6
175°	1020.7	1022.0	1023.3	1024.0	1023.4	1022.2	1021.1	1019.9	1018.7	1018.5	1018.4
177.5°	1022.1	1023.8	1025.5	1026.3	1025.6	1024.3	1023.0	1021.6	1020.3	1020.1	1019.9
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	545.4	543.1	540.9	540.9	535.9	531.4	529.2	530.1	527.3	523.7	520.1
5°	569.3	560.3	558.5	553.5	546.7	537.3	532.3	527.8	522.4	515.2	508.4
7.5°	591.4	579.7	573.4	568.4	555.3	542.2	531.4	524.2	514.7	503.9	495.8
10°	620.3	598.6	591.9	580.6	562.1	543.6	531.0	519.2	506.1	493.5	482.7
12.5°	643.3	618.5	605.8	594.6	570.7	547.2	526.0	511.6	495.8	481.8	467.8
15°	669.4	641.5	619.4	605.8	575.6	547.2	523.3	503.0	485.4	468.3	456.1
17.5°	682.1	646.9	637.0	617.6	573.8	545.4	516.1	494.4	473.2	453.4	438.9
20°	701.9	660.9	636.1	623.0	584.2	542.2	507.9	483.1	461.0	439.8	424.5
22.5°	703.3	658.6	642.4	617.6	569.8	532.8	500.7	470.5	444.8	424.9	409.2
25°	700.1	654.6	632.0	612.2	572.5	527.3	486.3	456.5	431.3	408.3	389.8
27.5°	698.8	642.8	621.6	601.8	557.1	511.6	477.7	443.9	415.0	394.7	375.8
30°	697.0	630.2	604.5	581.5	540.4	499.4	458.8	429.5	401.9	376.2	357.3
32.5°	685.2	613.1	586.9	562.5	518.3	477.3	445.2	414.1	384.3	360.4	343.3
35°	681.6	597.3	563.0	536.8	493.5	457.0	423.1	397.4	369.5	345.5	325.2
37.5°	671.3	581.0	544.0	510.7	465.5	430.8	406.0	380.3	353.2	327.5	311.3
40°	653.2	562.1	520.1	485.8	439.4	404.2	381.2	362.2	335.6	312.6	292.8
42.5°	626.6	542.7	497.6	461.5	410.1	377.1	358.2	340.1	317.6	293.7	277.4
45°	595.9	517.0	475.0	434.9	382.5	350.5	330.7	319.8	299.1	278.8	259.8
47.5°	554.0	490.4	448.9	407.4	354.1	323.0	307.2	296.4	281.9	259.8	244.5
50°	501.2	456.1	416.8	379.8	326.2	296.4	280.6	272.5	260.3	244.5	229.6
52.5°	442.5	416.4	383.9	349.6	297.7	269.8	255.3	249.0	240.0	225.1	212.5
55°	383.4	372.2	350.1	316.2	268.0	245.0	232.3	224.2	217.4	206.6	195.8
57.5°	330.7	325.2	309.9	283.7	243.1	219.2	208.4	203.0	197.6	189.5	178.6
60°	276.1	281.9	266.2	253.1	216.1	195.3	185.9	180.0	177.3	170.1	163.3
62.5°	228.7	234.1	225.1	215.2	189.0	170.5	164.7	159.2	157.4	151.1	144.4
65°	185.9	192.6	185.9	180.4	164.7	149.3	142.1	139.4	137.6	133.5	128.1
67.5°	148.0	154.7	151.6	144.8	139.8	127.2	123.2	120.4	119.5	116.4	111.9
70°	111.4	120.9	121.8	117.7	113.2	107.4	104.7	103.8	101.5	98.8	96.1
72.5°	80.3	91.1	91.6	91.6	88.9	88.9	86.2	84.8	84.8	82.1	78.9
75°	59.1	66.3	67.2	68.1	69.5	70.8	69.0	69.0	68.6	65.9	64.5
77.5°	39.2	45.6	47.8	51.0	52.8	52.8	53.7	54.6	53.7	52.3	51.4
80°	25.3	29.8	32.5	34.3	37.0	38.3	39.7	40.1	39.2	38.8	37.4
82.5°	16.7	18.0	19.4	21.7	24.8	27.1	27.1	26.6	27.5	27.1	26.6
85°	9.5	10.4	10.8	11.3	13.1	15.3	15.8	16.2	17.1	16.2	15.3
87.5°	3.6	4.1	4.1	4.1	5.0	5.4	6.8	8.6	8.1	7.2	7.2
90°	11.7	9.5	8.4	7.6	5.9	4.2	2.5	0.8	2.5	4.2	5.9
92.5°	15.2	13.7	12.9	13.4	14.4	15.5	16.5	17.5	16.5	15.5	14.4
95°	18.0	16.1	15.2	18.7	25.6	32.5	39.4	46.3	39.4	32.5	25.6
97.5°	50.1	58.7	63.0	65.4	70.1	74.8	79.6	84.3	79.6	74.8	70.1
100°	104.0	130.3	143.5	141.8	138.4	135.1	131.7	128.3	131.7	135.1	138.4
102.5°	144.3	173.6	188.3	187.2	185.0	182.8	180.6	178.4	180.6	182.8	185.0
105°	211.8	227.0	234.6	233.7	231.8	229.9	228.1	226.2	228.1	229.9	231.8
107.5°	287.7	285.2	283.9	283.1	281.6	280.1	278.6	277.1	278.6	280.1	281.6
110°	336.8	334.9	334.0	333.3	332.0	330.6	329.3	327.9	329.3	330.6	332.0

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	384.6	382.7	381.8	381.2	380.0	378.9	377.7	376.5	377.7	378.9	380.0
115°	431.2	429.7	428.9	428.4	427.4	426.3	425.3	424.3	425.3	426.3	427.4
117.5°	478.0	477.1	476.7	476.1	474.9	473.8	472.6	471.4	472.6	473.8	474.9
120°	522.3	521.8	521.5	520.7	519.2	517.7	516.2	514.7	516.2	517.7	519.2
122.5°	565.0	564.3	564.0	563.4	562.2	561.1	559.9	558.7	559.9	561.1	562.2
125°	605.3	604.6	604.3	603.6	602.3	600.9	599.6	598.2	599.6	600.9	602.3
127.5°	645.0	644.1	643.7	643.0	641.7	640.4	639.0	637.7	639.0	640.4	641.7
130°	681.2	680.5	680.2	679.5	678.2	676.8	675.5	674.1	675.5	676.8	678.2
132.5°	715.9	715.4	715.1	714.4	713.1	711.7	710.4	709.0	710.4	711.7	713.1
135°	750.2	749.5	749.2	748.7	747.7	746.7	745.7	744.7	745.7	746.7	747.7
137.5°	781.6	781.3	781.1	780.4	779.1	777.8	776.4	775.1	776.4	777.8	779.1
140°	810.8	810.3	810.0	809.5	808.5	807.4	806.4	805.4	806.4	807.4	808.5
142.5°	838.8	838.3	838.1	837.6	836.6	835.5	834.5	833.5	834.5	835.5	836.6
145°	865.1	864.8	864.6	864.0	862.8	861.7	860.5	859.3	860.5	861.7	862.8
147.5°	888.7	888.4	888.2	887.8	886.9	886.1	885.2	884.4	885.2	886.1	886.9
150°	909.9	909.6	909.4	909.1	908.6	908.1	907.6	907.1	907.6	908.1	908.6
152.5°	928.7	928.5	928.4	928.3	928.1	928.0	927.8	927.6	927.8	928.0	928.1
155°	945.4	945.2	945.1	945.3	945.6	945.9	946.3	946.6	946.3	945.9	945.6
157.5°	961.5	961.7	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8	961.8
160°	974.4	974.6	974.7	974.8	975.0	975.1	975.3	975.5	975.3	975.1	975.0
162.5°	985.8	986.0	986.1	986.4	986.9	987.4	987.9	988.4	987.9	987.4	986.9
165°	995.7	995.9	996.0	996.2	996.7	997.2	997.7	998.2	997.7	997.2	996.7
167.5°	1003.6	1003.6	1003.6	1003.9	1004.6	1005.3	1005.9	1006.6	1005.9	1005.3	1004.6
170°	1010.4	1010.4	1010.4	1010.7	1011.4	1012.1	1012.7	1013.4	1012.7	1012.1	1011.4
172.5°	1014.4	1014.3	1014.2	1014.6	1015.5	1016.3	1017.2	1018.0	1017.2	1016.3	1015.5
175°	1018.2	1018.1	1018.0	1018.4	1019.3	1020.1	1021.0	1021.8	1021.0	1020.1	1019.3
177.5°	1019.8	1019.6	1019.5	1019.9	1020.8	1021.6	1022.5	1023.3	1022.5	1021.6	1020.8
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	520.1	517.9	517.0	514.7	509.3	505.7	501.6	498.9	499.4	497.1	498.5
5°	503.9	503.4	500.3	495.8	488.1	484.0	476.8	473.2	471.4	471.9	469.2
7.5°	490.4	486.3	484.0	476.8	469.6	461.0	455.2	452.0	449.3	446.6	444.8
10°	475.0	471.4	467.8	460.1	450.2	442.1	434.0	430.8	426.7	424.9	423.6
12.5°	458.8	456.5	452.0	443.0	431.7	424.0	414.6	412.8	407.4	403.7	402.8
15°	443.9	442.5	434.4	424.0	412.8	405.1	397.0	391.6	382.5	384.3	381.2
17.5°	428.1	422.2	417.3	403.3	397.9	386.1	376.7	374.0	367.7	363.6	359.5
20°	410.5	406.9	400.6	391.6	378.5	364.9	357.7	353.2	349.6	343.3	341.5
22.5°	393.8	389.3	383.9	372.2	360.9	349.6	339.7	335.6	331.1	326.6	323.9
25°	380.7	374.0	368.1	353.7	342.4	332.9	326.6	319.8	313.5	310.8	309.9
27.5°	360.4	356.4	350.5	337.0	326.6	316.2	310.4	305.9	299.1	295.9	293.2
30°	347.4	339.2	332.5	321.6	311.3	300.0	294.6	289.2	285.1	281.0	277.9
32.5°	329.8	323.4	318.0	307.2	296.8	286.5	280.6	272.5	270.2	267.1	263.4
35°	312.6	308.6	302.7	291.0	279.7	272.5	266.2	258.5	255.8	253.5	250.4
37.5°	296.4	290.5	286.5	275.2	265.3	256.7	251.7	245.4	243.6	240.9	238.6
40°	282.4	276.5	272.5	261.2	250.8	241.8	238.6	232.3	229.6	226.5	225.1
42.5°	266.6	261.6	256.2	248.1	237.3	228.3	221.9	218.3	214.7	213.4	210.7
45°	249.9	245.4	241.3	232.3	221.0	214.7	209.3	204.4	201.6	199.4	197.6
47.5°	235.5	231.4	226.0	216.1	207.1	201.2	195.8	190.8	188.1	185.4	183.2
50°	218.8	216.5	210.7	201.2	192.6	185.9	180.9	176.4	174.6	171.4	167.8
52.5°	203.9	199.8	194.9	187.2	179.5	171.4	164.7	161.9	158.8	157.0	153.8
55°	186.3	183.6	178.2	171.4	163.3	156.5	151.6	148.0	143.9	142.1	138.0
57.5°	171.4	166.5	163.8	155.2	147.5	140.7	137.1	133.5	129.0	126.3	124.5
60°	155.2	150.7	146.6	139.4	134.0	126.8	121.3	118.2	115.0	111.4	109.6
62.5°	139.4	135.8	130.8	125.0	118.2	112.3	108.3	103.8	102.0	98.3	97.0
65°	122.3	119.5	115.5	108.7	103.3	98.3	94.3	90.7	88.9	87.5	86.6
67.5°	106.9	103.3	100.6	94.7	88.9	84.8	82.6	80.3	78.0	76.7	75.3
70°	91.1	88.4	85.7	80.3	76.2	72.6	70.8	69.0	67.7	66.3	65.0
72.5°	74.9	73.5	70.8	67.2	64.1	61.4	60.0	57.7	56.4	54.1	53.2
75°	61.8	59.5	58.2	55.0	52.3	50.1	48.3	45.6	43.8	42.9	42.4
77.5°	48.7	47.8	46.0	43.3	42.0	39.7	37.0	36.1	35.2	35.2	34.7
80°	36.5	35.2	33.8	31.6	30.2	28.4	28.4	28.4	28.0	28.4	28.0
82.5°	24.8	23.9	23.0	21.7	21.2	21.2	21.7	21.7	21.7	21.7	21.7
85°	14.4	14.4	14.4	14.9	14.4	14.4	14.9	15.3	14.9	14.9	14.4
87.5°	6.8	6.8	7.2	7.2	7.7	7.7	7.7	7.7	7.7	7.7	8.1
90°	7.6	8.4	9.5	11.7	13.8	16.0	18.2	18.9	19.6	20.3	21.0
92.5°	13.4	12.9	13.7	15.2	16.7	18.2	19.7	20.9	22.1	23.3	24.5
95°	18.7	15.2	16.1	18.0	19.8	21.7	23.5	24.7	25.9	27.0	28.2
97.5°	65.4	63.0	58.7	50.1	41.5	32.9	24.3	25.7	27.0	28.4	29.7
100°	141.8	143.5	130.3	104.0	77.7	51.4	25.1	26.4	27.8	29.1	30.4
102.5°	187.2	188.3	173.6	144.3	114.9	85.6	56.2	50.6	45.0	39.5	33.9
105°	233.7	234.6	227.0	211.8	196.6	181.4	166.2	136.4	106.5	76.7	46.8
107.5°	283.1	283.9	285.2	287.7	290.2	292.8	295.3	269.3	243.3	217.4	191.4
110°	333.3	334.0	334.9	336.8	338.7	340.5	342.4	336.8	331.2	325.7	320.1

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	381.2	381.8	382.7	384.6	386.5	388.3	390.2	391.7	393.2	394.7	396.2
115°	428.4	428.9	429.7	431.2	432.7	434.2	435.7	437.4	439.1	440.8	442.5
117.5°	476.1	476.7	477.1	478.0	478.8	479.7	480.5	481.9	483.2	484.6	485.9
120°	520.7	521.5	521.8	522.3	522.8	523.3	523.8	525.2	526.5	527.9	529.2
122.5°	563.4	564.0	564.3	565.0	565.7	566.4	567.1	567.9	568.8	569.6	570.5
125°	603.6	604.3	604.6	605.3	606.0	606.6	607.3	607.6	608.0	608.3	608.6
127.5°	643.0	643.7	644.1	645.0	645.8	646.7	647.5	648.0	648.5	649.0	649.5
130°	679.5	680.2	680.5	681.2	681.9	682.5	683.2	683.9	684.5	685.2	685.9
132.5°	714.4	715.1	715.4	715.9	716.4	716.9	717.4	718.1	718.7	719.4	720.1
135°	748.7	749.2	749.5	750.2	750.9	751.6	752.3	752.8	753.3	753.8	754.3
137.5°	780.4	781.1	781.3	781.6	782.0	782.3	782.7	783.5	784.3	785.2	786.0
140°	809.5	810.0	810.3	810.8	811.3	811.8	812.3	813.0	813.6	814.3	815.0
142.5°	837.6	838.1	838.3	838.8	839.3	839.8	840.3	840.8	841.3	841.8	842.3
145°	864.0	864.6	864.8	865.1	865.5	865.8	866.2	866.5	866.9	867.2	867.5
147.5°	887.8	888.2	888.4	888.7	889.0	889.4	889.7	890.0	890.4	890.7	891.0
150°	909.1	909.4	909.6	909.9	910.2	910.6	910.9	911.3	911.6	912.0	912.3
152.5°	928.3	928.4	928.5	928.7	928.8	929.0	929.2	929.9	930.5	931.2	931.9
155°	945.3	945.1	945.2	945.4	945.5	945.7	945.9	946.7	947.6	948.4	949.3
157.5°	961.8	961.8	961.7	961.5	961.4	961.2	961.0	962.0	963.0	964.1	965.1
160°	974.8	974.7	974.6	974.4	974.3	974.1	973.9	974.9	975.9	977.0	978.0
162.5°	986.4	986.1	986.0	985.8	985.7	985.5	985.3	986.5	987.7	988.8	990.0
165°	996.2	996.0	995.9	995.7	995.6	995.4	995.2	996.6	997.9	999.3	1000.6
167.5°	1003.9	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1004.9	1006.3	1007.6	1008.9
170°	1010.7	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1011.8	1013.1	1014.5	1015.8
172.5°	1014.6	1014.2	1014.3	1014.4	1014.6	1014.7	1014.9	1016.3	1017.6	1019.0	1020.3
175°	1018.4	1018.0	1018.1	1018.2	1018.4	1018.5	1018.7	1019.9	1021.1	1022.2	1023.4
177.5°	1019.9	1019.5	1019.6	1019.8	1019.9	1020.1	1020.3	1021.6	1023.0	1024.3	1025.6
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	498.0	498.5	497.1	494.4	494.0	494.9	497.6	496.7	494.4	498.5	494.9
5°	470.5	468.3	467.3	468.3	465.5	464.2	466.9	465.5	466.9	467.3	468.7
7.5°	443.9	444.3	441.6	442.1	438.5	439.4	439.4	439.4	440.7	441.6	443.4
10°	420.9	421.8	418.6	419.1	416.4	414.6	415.9	418.6	418.6	418.6	419.5
12.5°	402.4	398.3	396.1	395.6	392.5	391.6	394.3	395.2	397.4	397.4	398.8
15°	379.4	378.5	376.7	376.7	369.0	370.8	371.7	374.9	379.4	375.8	376.7
17.5°	358.6	356.4	354.1	353.2	352.3	349.6	353.2	352.8	355.5	355.9	357.3
20°	340.1	338.3	333.8	334.3	335.2	331.1	333.4	333.4	336.1	338.8	341.9
22.5°	322.1	320.3	318.0	318.9	316.2	315.3	315.3	317.6	320.7	323.0	322.5
25°	308.1	305.0	303.6	302.2	300.9	301.8	300.4	302.7	305.0	306.3	305.0
27.5°	292.3	291.0	288.3	286.9	284.7	285.6	286.5	288.3	289.6	289.6	291.0
30°	277.0	275.2	274.3	272.9	272.9	271.1	271.6	273.4	274.7	276.1	277.9
32.5°	262.1	260.7	259.4	259.4	258.5	258.0	257.6	260.3	260.3	263.0	263.0
35°	249.9	247.7	247.7	245.4	246.3	245.9	245.0	246.8	247.2	249.0	248.6
37.5°	236.4	236.4	235.5	233.2	231.4	231.9	234.1	234.1	235.5	235.0	236.4
40°	222.8	221.9	221.9	220.6	220.1	219.7	220.1	220.6	222.8	222.4	222.8
42.5°	209.3	209.8	207.5	207.5	207.5	206.2	206.6	207.1	208.0	208.9	210.2
45°	196.2	195.3	194.9	194.0	193.1	193.5	193.1	194.9	194.4	195.3	196.7
47.5°	182.2	180.9	180.4	178.6	178.6	179.5	179.1	180.4	180.9	182.2	181.3
50°	168.7	166.9	165.6	166.0	163.3	164.2	164.2	165.6	166.9	167.4	168.3
52.5°	152.9	152.5	152.0	149.8	149.3	148.9	149.3	149.8	151.6	152.9	153.4
55°	137.6	137.1	134.4	133.5	132.2	132.2	133.1	133.5	136.7	137.1	138.9
57.5°	123.6	122.3	119.1	118.6	118.6	118.6	117.3	119.1	120.0	122.3	122.3
60°	108.3	108.3	105.6	105.6	106.0	105.6	105.6	106.0	106.0	107.8	108.7
62.5°	96.1	95.6	95.6	94.7	94.3	94.7	94.3	94.3	94.7	96.1	97.4
65°	85.3	84.8	84.4	83.9	83.0	83.0	83.5	84.4	84.4	85.3	85.7
67.5°	74.9	74.9	74.0	74.0	73.5	73.1	73.5	73.1	74.9	74.9	75.3
70°	64.5	64.1	62.7	62.3	60.9	61.4	61.4	62.7	63.2	64.1	65.0
72.5°	51.9	51.9	51.0	50.1	50.5	49.6	49.6	50.1	50.1	51.4	51.9
75°	42.9	42.0	41.5	42.0	41.5	42.4	41.5	41.5	42.4	42.4	42.4
77.5°	35.2	35.2	34.7	34.7	35.2	34.7	35.2	35.2	35.2	34.7	35.2
80°	28.9	28.4	28.4	28.4	28.0	28.0	28.0	28.0	28.0	28.0	28.0
82.5°	21.7	21.7	21.2	21.7	21.7	21.2	21.7	21.2	21.2	21.7	21.7
85°	14.4	15.3	14.4	14.4	14.9	14.9	15.3	14.9	15.3	14.4	14.9
87.5°	7.7	8.1	8.1	7.7	7.7	8.1	8.1	8.1	8.6	7.7	8.1
90°	21.3	21.5	21.8	22.1	22.5	22.8	22.5	22.1	21.8	21.5	21.3
92.5°	25.1	25.2	25.3	25.5	25.6	25.8	25.6	25.5	25.3	25.2	25.1
95°	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8	28.8
97.5°	30.4	30.5	30.6	30.8	30.9	31.1	30.9	30.8	30.6	30.5	30.4
100°	31.1	31.2	31.4	31.5	31.7	31.9	31.7	31.5	31.4	31.2	31.1
102.5°	31.1	31.3	31.6	31.9	32.3	32.6	32.3	31.9	31.6	31.3	31.1
105°	31.9	32.1	32.4	32.7	33.1	33.4	33.1	32.7	32.4	32.1	31.9
107.5°	178.4	167.3	145.2	123.1	101.0	78.9	101.0	123.1	145.2	167.3	178.4
110°	317.3	305.2	281.1	257.0	232.9	208.8	232.9	257.0	281.1	305.2	317.3



TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	397.0	396.8	396.5	396.2	395.8	395.5	395.8	396.2	396.5	396.8	397.0
115°	443.3	443.6	444.3	445.0	445.7	446.4	445.7	445.0	444.3	443.6	443.3
117.5°	486.6	486.7	486.9	487.0	487.2	487.4	487.2	487.0	486.9	486.7	486.6
120°	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9	529.9
122.5°	570.9	571.0	571.1	571.3	571.4	571.6	571.4	571.3	571.1	571.0	570.9
125°	608.8	609.0	609.3	609.6	610.0	610.3	610.0	609.6	609.3	609.0	608.8
127.5°	649.8	649.6	649.3	649.0	648.6	648.3	648.6	649.0	649.3	649.6	649.8
130°	686.2	686.0	685.7	685.4	685.0	684.7	685.0	685.4	685.7	686.0	686.2
132.5°	720.4	720.1	719.6	719.1	718.6	718.1	718.6	719.1	719.6	720.1	720.4
135°	754.6	754.3	753.8	753.3	752.8	752.3	752.8	753.3	753.8	754.3	754.6
137.5°	786.4	786.2	785.9	785.6	785.2	784.9	785.2	785.6	785.9	786.2	786.4
140°	815.3	815.1	814.8	814.5	814.1	813.8	814.1	814.5	814.8	815.1	815.3
142.5°	842.6	842.3	841.8	841.3	840.8	840.3	840.8	841.3	841.8	842.3	842.6
145°	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7	867.7
147.5°	891.2	890.8	889.9	889.1	888.2	887.4	888.2	889.1	889.9	890.8	891.2
150°	912.5	912.2	911.7	911.2	910.7	910.2	910.7	911.2	911.7	912.2	912.5
152.5°	932.2	931.8	930.9	930.1	929.2	928.4	929.2	930.1	930.9	931.8	932.2
155°	949.7	949.2	948.2	947.1	946.1	945.1	946.1	947.1	948.2	949.2	949.7
157.5°	965.6	964.9	963.6	962.2	960.9	959.5	960.9	962.2	963.6	964.9	965.6
160°	978.5	977.9	976.7	975.6	974.4	973.2	974.4	975.6	976.7	977.9	978.5
162.5°	990.6	990.1	989.1	988.1	987.1	986.1	987.1	988.1	989.1	990.1	990.6
165°	1001.3	1000.7	999.5	998.4	997.2	996.0	997.2	998.4	999.5	1000.7	1001.3
167.5°	1009.6	1008.9	1007.6	1006.3	1004.9	1003.6	1004.9	1006.3	1007.6	1008.9	1009.6
170°	1016.5	1015.8	1014.5	1013.1	1011.8	1010.4	1011.8	1013.1	1014.5	1015.8	1016.5
172.5°	1021.0	1020.2	1018.7	1017.2	1015.7	1014.2	1015.7	1017.2	1018.7	1020.2	1021.0
175°	1024.0	1023.3	1022.0	1020.7	1019.3	1018.0	1019.3	1020.7	1022.0	1023.3	1024.0
177.5°	1026.3	1025.5	1023.8	1022.1	1020.4	1018.7	1020.4	1022.1	1023.8	1025.5	1026.3
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9	526.9
2.5°	498.5	500.3	498.5	494.9	498.5	500.7	503.0	506.6	508.4	508.4	511.1
5°	470.1	473.7	472.3	471.4	475.0	477.3	480.9	485.4	490.4	493.5	497.1
7.5°	444.8	447.0	449.3	449.3	452.9	457.9	463.3	468.7	475.0	479.5	482.2
10°	422.7	424.5	425.8	427.7	433.1	438.5	445.7	452.5	457.9	462.8	467.3
12.5°	401.5	404.2	407.4	408.7	412.8	419.5	426.3	434.4	443.0	448.0	452.5
15°	381.2	382.5	386.1	390.2	393.8	401.0	409.6	418.2	425.4	433.1	437.1
17.5°	360.4	360.9	370.4	368.1	379.8	386.6	391.1	399.2	411.0	417.3	423.6
20°	340.1	344.6	348.7	351.0	357.3	364.9	378.0	384.3	393.8	399.7	405.1
22.5°	324.3	331.1	331.1	336.5	339.7	346.9	356.4	368.6	378.9	383.0	390.7
25°	310.4	313.5	318.9	320.7	326.6	332.9	339.2	352.3	363.6	369.0	374.4
27.5°	292.3	296.4	303.6	303.6	311.3	318.0	325.7	334.3	345.5	353.2	359.1
30°	278.3	282.4	285.6	290.5	293.7	300.0	313.5	319.8	329.8	336.5	343.7
32.5°	265.3	268.4	271.1	276.5	280.1	287.4	294.6	305.9	314.4	320.7	328.4
35°	250.8	254.0	257.6	261.6	267.1	273.8	280.6	290.1	298.6	304.5	310.8
37.5°	237.3	239.5	245.0	247.7	252.2	258.5	267.1	277.0	284.7	289.2	295.5
40°	224.2	226.0	230.1	235.0	238.2	243.1	252.2	260.7	270.2	275.6	280.6
42.5°	210.2	212.5	216.1	221.0	226.0	231.4	236.4	246.3	254.9	259.4	264.8
45°	198.0	199.4	202.1	207.1	212.0	216.1	223.8	232.8	240.9	244.5	250.4
47.5°	183.6	185.0	189.0	191.3	196.7	202.1	209.8	218.8	226.0	229.6	235.0
50°	168.7	170.1	172.8	177.7	181.3	187.2	194.0	201.6	210.7	215.6	218.8
52.5°	154.3	157.0	159.2	163.3	167.8	173.7	180.0	187.2	194.9	199.8	203.5
55°	139.8	142.1	144.8	147.1	152.5	157.9	165.1	171.9	178.6	183.2	187.2
57.5°	123.6	126.8	129.5	134.0	138.0	142.6	150.7	156.1	164.2	167.4	171.0
60°	109.6	112.8	115.0	118.6	122.3	128.1	133.5	140.3	147.1	151.1	155.6
62.5°	97.9	99.2	100.6	104.2	107.8	113.2	118.6	125.4	132.6	134.9	138.5
65°	86.2	87.5	89.8	92.9	95.6	98.8	104.7	110.1	116.8	120.4	121.8
67.5°	76.2	77.6	78.0	80.3	82.6	86.2	89.3	94.7	101.0	103.3	106.0
70°	65.0	67.2	67.7	69.5	70.4	72.6	76.2	80.3	85.3	89.3	91.6
72.5°	51.9	55.0	55.9	58.6	60.0	62.3	65.0	68.1	71.3	73.1	74.9
75°	42.4	43.3	43.8	46.0	48.3	51.4	52.8	54.6	57.3	59.5	61.4
77.5°	35.2	35.6	36.1	36.1	36.5	38.3	41.1	43.3	45.1	46.0	47.4
80°	28.4	28.0	28.0	28.4	28.4	28.4	29.3	32.5	33.4	35.6	35.2
82.5°	22.1	21.2	21.7	21.2	21.2	21.2	21.2	21.7	21.7	23.0	23.9
85°	14.4	14.9	14.4	14.4	14.0	14.4	14.0	14.0	13.5	13.5	13.1
87.5°	7.7	8.1	7.7	7.7	7.2	7.7	7.2	7.2	6.8	6.8	5.9
90°	21.0	20.3	19.6	18.9	18.2	16.0	13.8	11.7	9.5	8.4	7.6
92.5°	24.5	23.3	22.1	20.9	19.7	18.2	16.7	15.2	13.7	12.9	13.4
95°	28.2	27.0	25.9	24.7	23.5	21.7	19.8	18.0	16.1	15.2	18.7
97.5°	29.7	28.4	27.0	25.7	24.3	32.9	41.5	50.1	58.7	63.0	65.4
100°	30.4	29.1	27.8	26.4	25.1	51.4	77.7	104.0	130.3	143.5	141.8
102.5°	33.9	39.5	45.0	50.6	56.2	85.6	114.9	144.3	173.6	188.3	187.2
105°	46.8	76.7	106.5	136.4	166.2	181.4	196.6	211.8	227.0	234.6	233.7
107.5°	191.4	217.4	243.3	269.3	295.3	292.8	290.2	287.7	285.2	283.9	283.1
110°	320.1	325.7	331.2	336.8	342.4	340.5	338.7	336.8	334.9	334.0	333.3

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	396.2	394.7	393.2	391.7	390.2	388.3	386.5	384.6	382.7	381.8	381.2
115°	442.5	440.8	439.1	437.4	435.7	434.2	432.7	431.2	429.7	428.9	428.4
117.5°	485.9	484.6	483.2	481.9	480.5	479.7	478.8	478.0	477.1	476.7	476.1
120°	529.2	527.9	526.5	525.2	523.8	523.3	522.8	522.3	521.8	521.5	520.7
122.5°	570.5	569.6	568.8	567.9	567.1	566.4	565.7	565.0	564.3	564.0	563.4
125°	608.6	608.3	608.0	607.6	607.3	606.6	606.0	605.3	604.6	604.3	603.6
127.5°	649.5	649.0	648.5	648.0	647.5	646.7	645.8	645.0	644.1	643.7	643.0
130°	685.9	685.2	684.5	683.9	683.2	682.5	681.9	681.2	680.5	680.2	679.5
132.5°	720.1	719.4	718.7	718.1	717.4	716.9	716.4	715.9	715.4	715.1	714.4
135°	754.3	753.8	753.3	752.8	752.3	751.6	750.9	750.2	749.5	749.2	748.7
137.5°	786.0	785.2	784.3	783.5	782.7	782.3	782.0	781.6	781.3	781.1	780.4
140°	815.0	814.3	813.6	813.0	812.3	811.8	811.3	810.8	810.3	810.0	809.5
142.5°	842.3	841.8	841.3	840.8	840.3	839.8	839.3	838.8	838.3	838.1	837.6
145°	867.5	867.2	866.9	866.5	866.2	865.8	865.5	865.1	864.8	864.6	864.0
147.5°	891.0	890.7	890.4	890.0	889.7	889.4	889.0	888.7	888.4	888.2	887.8
150°	912.3	912.0	911.6	911.3	910.9	910.6	910.2	909.9	909.6	909.4	909.1
152.5°	931.9	931.2	930.5	929.9	929.2	929.0	928.8	928.7	928.5	928.4	928.3
155°	949.3	948.4	947.6	946.7	945.9	945.7	945.5	945.4	945.2	945.1	945.3
157.5°	965.1	964.1	963.0	962.0	961.0	961.2	961.4	961.5	961.7	961.8	961.8
160°	978.0	977.0	975.9	974.9	973.9	974.1	974.3	974.4	974.6	974.7	974.8
162.5°	990.0	988.8	987.7	986.5	985.3	985.5	985.7	985.8	986.0	986.1	986.4
165°	1000.6	999.3	997.9	996.6	995.2	995.4	995.6	995.7	995.9	996.0	996.2
167.5°	1008.9	1007.6	1006.3	1004.9	1003.6	1003.6	1003.6	1003.6	1003.6	1003.6	1003.9
170°	1015.8	1014.5	1013.1	1011.8	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.7
172.5°	1020.3	1019.0	1017.6	1016.3	1014.9	1014.7	1014.6	1014.4	1014.3	1014.2	1014.6
175°	1023.4	1022.2	1021.1	1019.9	1018.7	1018.5	1018.4	1018.2	1018.1	1018.0	1018.4
177.5°	1025.6	1024.3	1023.0	1021.6	1020.3	1020.1	1019.9	1019.8	1019.6	1019.5	1019.9
180°	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8	1021.8

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	526.9	526.9	526.9	526.9
2.5°	513.4	516.5	522.8	528.2
5°	502.5	507.5	517.0	526.4
7.5°	489.5	497.1	509.3	522.4
10°	476.8	486.7	501.6	517.0
12.5°	464.2	474.6	490.4	510.2
15°	449.3	460.1	479.1	503.0
17.5°	436.2	450.7	467.8	491.7
20°	422.2	433.1	455.2	480.4
22.5°	404.6	422.7	443.4	470.1
25°	390.7	406.4	427.2	457.4
27.5°	373.5	392.0	417.3	443.9
30°	359.5	374.9	398.3	430.4
32.5°	343.3	361.3	385.7	417.3
35°	328.9	344.2	367.2	399.2
37.5°	311.7	328.4	354.1	382.5
40°	296.8	313.1	337.4	364.0
42.5°	278.8	295.9	320.3	342.8
45°	264.4	280.1	299.5	320.3
47.5°	246.8	263.4	282.4	296.8
50°	231.0	246.3	261.2	273.4
52.5°	213.8	227.8	241.3	250.4
55°	198.0	208.9	219.7	226.0
57.5°	179.5	189.9	198.9	202.5
60°	163.3	171.9	177.7	181.8
62.5°	146.2	152.5	157.0	159.2
65°	129.5	134.0	136.2	138.5
67.5°	112.3	116.4	117.7	120.4
70°	94.3	98.8	99.7	101.0
72.5°	80.7	80.7	82.6	84.4
75°	64.5	65.4	66.3	66.3
77.5°	50.5	50.5	51.4	51.9
80°	37.0	37.4	37.4	37.0
82.5°	25.3	26.2	25.3	24.8
85°	14.0	15.8	14.9	14.9
87.5°	5.9	5.9	6.8	5.9
90°	5.9	4.2	2.5	0.8
92.5°	14.4	15.5	16.5	17.5
95°	25.6	32.5	39.4	46.3
97.5°	70.1	74.8	79.6	84.3
100°	138.4	135.1	131.7	128.3
102.5°	185.0	182.8	180.6	178.4
105°	231.8	229.9	228.1	226.2
107.5°	281.6	280.1	278.6	277.1
110°	332.0	330.6	329.3	327.9

TEST NUMBER: P1010912

CATALOG NUMBER: S123RDIP-B340D805UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	380.0	378.9	377.7	376.5
115°	427.4	426.3	425.3	424.3
117.5°	474.9	473.8	472.6	471.4
120°	519.2	517.7	516.2	514.7
122.5°	562.2	561.1	559.9	558.7
125°	602.3	600.9	599.6	598.2
127.5°	641.7	640.4	639.0	637.7
130°	678.2	676.8	675.5	674.1
132.5°	713.1	711.7	710.4	709.0
135°	747.7	746.7	745.7	744.7
137.5°	779.1	777.8	776.4	775.1
140°	808.5	807.4	806.4	805.4
142.5°	836.6	835.5	834.5	833.5
145°	862.8	861.7	860.5	859.3
147.5°	886.9	886.1	885.2	884.4
150°	908.6	908.1	907.6	907.1
152.5°	928.1	928.0	927.8	927.6
155°	945.6	945.9	946.3	946.6
157.5°	961.8	961.8	961.8	961.8
160°	975.0	975.1	975.3	975.5
162.5°	986.9	987.4	987.9	988.4
165°	996.7	997.2	997.7	998.2
167.5°	1004.6	1005.3	1005.9	1006.6
170°	1011.4	1012.1	1012.7	1013.4
172.5°	1015.5	1016.3	1017.2	1018.0
175°	1019.3	1020.1	1021.0	1021.8
177.5°	1020.8	1021.6	1022.5	1023.3
180°	1021.8	1021.8	1021.8	1021.8

(END OF REPORT)