

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: P1031157

Luminaire Tested: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031157
REPORT IS A COMBINATION OF REPORTS P994345 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

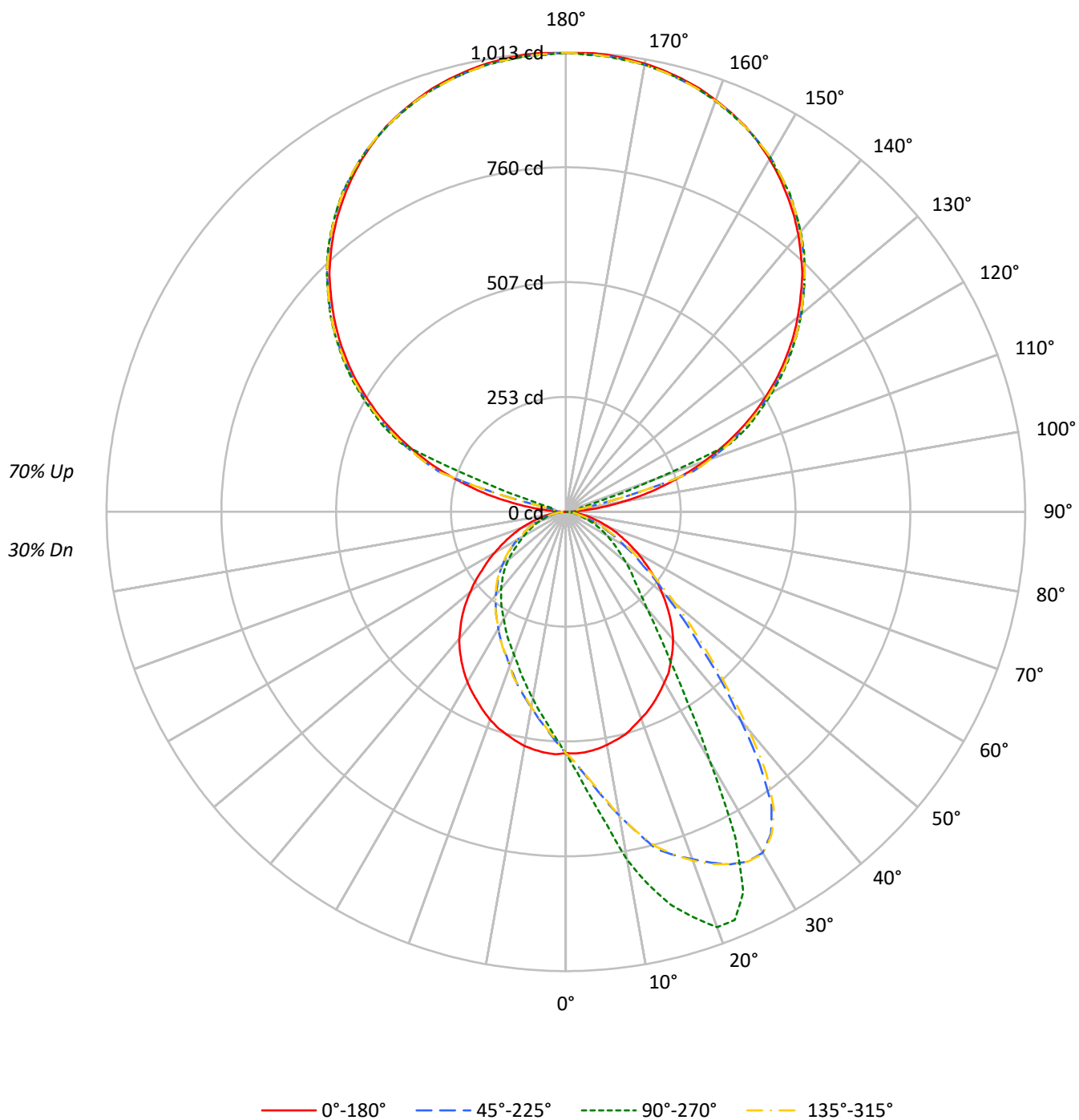
Lumens per Lamp: N/A
Luminaire Lumens: 4412.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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: P1031157

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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	38	38	38
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33
2	86	79	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28
3	78	69	62	57	70	63	57	52	50	46	42	38	35	33	27	26	24
4	72	61	54	48	64	56	49	44	44	40	36	34	31	29	24	23	21
5	66	55	47	41	59	50	43	38	40	35	31	31	27	25	22	20	19
6	61	49	41	36	54	45	38	33	36	31	27	28	24	22	20	18	16
7	56	44	37	32	50	40	34	29	33	28	24	25	22	19	18	16	15
8	52	40	33	28	47	37	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	16	16	14	12
10	45	34	27	22	40	31	25	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5727	5727	5727	5727
5°	5732	6597	5747	4894
10°	5681	7964	5707	4275
15°	5623	9037	5623	3769
20°	5508	9748	5538	3344
25°	5424	9262	5412	3051
30°	5325	6417	5314	2765
35°	5207	4120	5184	2549
40°	5061	2909	5034	2334
45°	4804	2328	4797	2125
50°	4490	1948	4475	1880
55°	4135	1605	4102	1594
60°	3788	1326	3751	1356
65°	3382	1061	3404	1149
70°	3004	738	3086	930
75°	2549	547	2651	714
80°	2030	362	2199	535
85°	1441	171	1575	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 7647 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	1.2
10°-20°	163.6	3.7
20°-30°	257.6	5.8
30°-40°	267.9	6.1
40°-50°	229.2	5.2
50°-60°	174.7	4.0
60°-70°	111.9	2.5
70°-80°	53.6	1.2
80°-90°	16.1	0.4
90°-100°	35.7	0.8
100°-110°	172.5	3.9
110°-120°	422.8	9.6
120°-130°	536.7	12.2
130°-140°	573.4	13.0
140°-150°	536.2	12.2
150°-160°	432.5	9.8
160°-170°	279.1	6.3
170°-180°	96.2	2.2
0°-30°	473.5	10.7
0°-40°	741.4	16.8
0°-60°	1145.3	26.0
0°-90°	1327.0	30.1
90°-120°	631.0	14.3
90°-150°	2277.2	51.6
90°-180°	3085.0	69.9
0°-180°	4412.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	532	532	532	532	532	
5°	532	632	533	469	532	50
15°	508	898	508	374	508	143
25°	462	925	461	305	462	213
35°	403	401	401	248	403	252
45°	324	214	323	195	324	249
55°	228	134	226	134	228	205
65°	140	77	141	84	140	140
75°	67	33	70	43	67	72
85°	15	8	16	15	15	17
90°	1	23	1	23	1	3
95°	46	29	46	29	46	55
105°	224	33	224	33	224	238
115°	420	442	420	442	420	415
125°	592	604	592	604	592	529
135°	738	745	738	745	738	568
145°	851	859	851	859	851	533
155°	938	936	938	936	938	432
165°	989	986	989	986	989	279
175°	1012	1008	1012	1008	1012	96
180°	1012	1012	1012	1012	1012	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1
2.5°	533.5	537.1	539.9	541.7	546.2	549.0	551.3	555.4	555.4	556.3	558.1
5°	531.7	539.4	544.9	552.2	561.7	566.3	572.7	578.1	585.9	590.0	594.1
7.5°	527.6	538.5	549.9	560.8	574.9	584.1	590.4	604.6	614.6	626.9	636.4
10°	522.1	537.1	551.7	568.6	587.7	601.4	610.9	629.6	648.7	666.1	680.6
12.5°	515.3	533.5	554.4	574.9	601.8	615.5	631.0	654.2	681.5	703.4	723.0
15°	508.0	528.9	552.6	577.7	611.4	630.5	652.8	681.1	711.6	743.0	769.9
17.5°	496.6	523.0	549.4	585.9	625.5	636.9	656.0	694.8	732.6	760.8	793.6
20°	485.2	514.8	548.1	580.9	623.7	650.1	667.9	708.9	749.4	783.6	815.0
22.5°	474.7	505.7	540.3	581.8	621.9	648.3	670.6	713.4	760.4	798.6	837.4
25°	462.0	495.7	533.9	573.1	621.9	641.9	666.5	716.2	765.8	810.0	857.9
27.5°	448.3	482.5	520.3	560.4	605.0	634.6	658.8	712.1	772.7	820.0	869.2
30°	434.6	469.7	506.1	542.1	592.3	620.5	648.3	707.1	776.3	830.5	868.3
32.5°	421.4	451.0	487.0	522.1	571.8	602.7	634.2	702.0	777.7	823.2	841.5
35°	403.2	434.2	463.3	500.7	550.8	581.3	618.2	701.6	771.8	800.0	790.9
37.5°	386.3	412.3	440.1	473.3	524.8	564.5	602.7	689.7	752.2	754.0	702.5
40°	367.7	389.1	412.3	447.4	503.0	542.1	583.6	671.5	716.6	689.7	599.1
42.5°	346.2	365.4	383.6	417.8	478.4	522.1	566.7	648.7	665.1	603.2	508.9
45°	323.5	339.0	355.8	391.8	452.4	495.7	540.3	613.7	596.8	509.3	419.6
47.5°	299.8	313.0	329.4	362.2	424.6	468.8	511.2	563.6	520.7	426.9	351.7
50°	276.1	286.6	302.5	336.2	396.4	436.4	475.6	509.8	449.7	366.3	290.7
52.5°	252.8	261.0	277.4	306.1	364.5	402.7	431.0	444.2	383.1	302.5	252.4
55°	228.2	237.4	248.3	277.4	335.3	363.6	382.2	381.8	318.9	256.5	208.7
57.5°	204.6	212.8	222.3	251.5	298.4	317.5	333.5	325.7	266.1	210.0	179.0
60°	183.6	188.2	198.6	223.2	258.8	275.2	284.3	271.1	217.3	177.2	148.1
62.5°	160.8	165.4	174.0	197.3	219.1	227.8	235.5	218.7	179.5	144.4	126.7
65°	139.9	145.8	151.3	169.9	181.8	192.3	191.3	177.2	140.3	117.5	103.0
67.5°	121.6	123.9	128.5	139.9	145.3	153.1	153.5	137.6	113.0	95.7	87.0
70°	102.0	104.3	107.5	113.0	116.6	118.5	117.5	103.4	85.2	74.7	67.0
72.5°	85.2	84.7	87.0	87.0	90.7	90.2	87.5	76.5	64.7	56.0	51.5
75°	67.0	67.4	67.9	67.0	65.6	63.8	61.5	53.3	45.6	41.5	37.4
77.5°	52.4	51.5	51.9	48.7	46.9	45.1	41.9	37.8	31.4	30.5	28.7
80°	37.4	36.9	36.4	35.1	31.0	29.2	26.9	24.6	23.2	22.3	21.9
82.5°	25.1	25.1	24.1	21.4	19.1	17.8	17.3	16.4	15.0	15.0	14.6
85°	15.0	14.6	13.7	10.9	9.6	9.6	9.6	9.6	8.7	8.7	8.2
87.5°	5.9	5.5	4.1	4.1	3.6	3.6	3.6	3.2	3.2	2.7	2.7
90°	0.8	2.5	4.1	5.8	7.5	8.3	9.4	11.5	13.7	15.8	18.0
92.5°	17.3	16.3	15.3	14.3	13.3	12.8	13.5	15.0	16.5	18.0	19.5
95°	45.9	39.0	32.2	25.3	18.4	15.0	15.9	17.8	19.6	21.5	23.3
97.5°	83.5	78.8	74.1	69.4	64.7	62.4	58.1	49.6	41.1	32.6	24.1
100°	127.1	130.4	133.8	137.1	140.4	142.1	129.1	103.0	76.9	50.9	24.8
102.5°	176.7	178.9	181.0	183.2	185.3	186.4	171.9	142.8	113.7	84.7	55.6
105°	224.0	225.8	227.7	229.5	231.4	232.3	224.8	209.7	194.7	179.6	164.6
107.5°	274.4	275.9	277.4	278.9	280.4	281.2	282.5	285.0	287.5	290.0	292.5
110°	324.8	326.1	327.5	328.8	330.1	330.8	331.7	333.6	335.4	337.3	339.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	372.9	374.1	375.3	376.4	377.6	378.2	379.1	380.9	382.8	384.6	386.4
115°	420.3	421.3	422.3	423.3	424.3	424.8	425.5	427.0	428.5	430.0	431.5
117.5°	466.9	468.1	469.2	470.4	471.5	472.1	472.5	473.4	474.2	475.1	475.9
120°	509.7	511.2	512.7	514.2	515.7	516.5	516.7	517.2	517.7	518.2	518.7
122.5°	553.3	554.5	555.7	556.8	558.0	558.6	558.9	559.6	560.3	560.9	561.6
125°	592.4	593.7	595.1	596.4	597.7	598.4	598.7	599.4	600.1	600.7	601.4
127.5°	631.5	632.8	634.2	635.5	636.8	637.5	637.9	638.8	639.6	640.5	641.3
130°	667.6	668.9	670.3	671.6	672.9	673.6	673.9	674.6	675.3	675.9	676.6
132.5°	702.2	703.5	704.9	706.2	707.5	708.2	708.5	709.0	709.5	710.0	710.5
135°	737.5	738.5	739.5	740.5	741.5	742.0	742.3	743.0	743.7	744.3	745.0
137.5°	767.6	768.9	770.3	771.6	772.9	773.6	773.8	774.1	774.4	774.8	775.1
140°	797.7	798.7	799.7	800.7	801.7	802.2	802.4	802.9	803.4	803.9	804.4
142.5°	825.5	826.5	827.5	828.5	829.5	830.0	830.3	830.8	831.3	831.8	832.3
145°	851.1	852.3	853.4	854.6	855.7	856.3	856.5	856.8	857.1	857.5	857.8
147.5°	875.9	876.7	877.5	878.4	879.2	879.6	879.8	880.1	880.4	880.8	881.1
150°	898.4	898.9	899.4	899.9	900.4	900.7	900.9	901.2	901.5	901.9	902.2
152.5°	918.7	918.9	919.1	919.2	919.4	919.5	919.6	919.7	919.9	920.0	920.2
155°	937.5	937.2	936.8	936.5	936.2	936.0	936.1	936.3	936.4	936.6	936.8
157.5°	952.5	952.5	952.5	952.5	952.5	952.5	952.4	952.3	952.1	952.0	951.8
160°	966.1	965.9	965.7	965.6	965.4	965.3	965.2	965.1	964.9	964.8	964.6
162.5°	978.9	978.4	977.9	977.4	976.9	976.6	976.5	976.4	976.2	976.1	975.9
165°	988.6	988.1	987.6	987.1	986.6	986.4	986.3	986.1	986.0	985.8	985.6
167.5°	996.9	996.2	995.6	994.9	994.2	993.9	993.9	993.9	993.9	993.9	993.9
170°	1003.7	1003.0	1002.4	1001.7	1001.0	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7
172.5°	1008.2	1007.4	1006.5	1005.7	1004.8	1004.4	1004.5	1004.7	1004.8	1005.0	1005.2
175°	1011.9	1011.1	1010.3	1009.4	1008.6	1008.2	1008.3	1008.4	1008.6	1008.7	1008.9
177.5°	1013.4	1012.6	1011.8	1010.9	1010.1	1009.7	1009.8	1009.9	1010.1	1010.2	1010.4
180°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1
2.5°	561.7	561.7	565.8	569.9	567.7	569.0	574.0	572.2	575.9	575.4	576.8
5°	604.1	609.1	613.2	621.9	623.2	621.9	630.5	632.8	636.9	631.9	634.2
7.5°	651.9	662.4	672.4	685.2	689.3	690.2	694.8	701.1	706.6	696.6	701.6
10°	698.4	714.3	734.8	746.2	756.3	759.9	763.6	767.7	774.0	780.0	775.4
12.5°	748.5	771.8	791.3	811.8	824.1	822.8	833.3	836.0	841.0	842.4	844.2
15°	789.5	822.3	834.6	865.1	867.9	877.0	888.8	899.3	900.7	897.9	897.9
17.5°	828.7	856.9	878.8	903.4	908.4	916.2	931.2	936.2	938.0	937.6	937.6
20°	860.6	879.3	916.2	936.7	944.9	954.9	965.4	971.8	973.1	974.9	972.2
22.5°	881.5	909.8	939.9	956.7	963.6	967.2	974.0	975.9	973.6	974.0	974.5
25°	897.9	925.7	944.0	948.5	948.1	943.5	938.5	929.8	928.9	925.3	918.0
27.5°	902.5	913.0	910.7	892.0	873.3	871.5	841.5	825.1	806.4	809.1	798.6
30°	877.9	864.2	831.9	784.5	764.9	733.0	699.3	664.2	650.6	635.5	663.3
32.5°	817.8	769.0	711.6	650.1	617.3	589.1	553.1	527.6	513.0	500.7	524.4
35°	727.1	651.0	574.9	516.6	489.7	464.2	430.5	417.8	399.5	401.4	403.6
37.5°	610.5	526.6	469.2	411.8	394.1	383.6	359.0	339.4	333.0	331.2	331.2
40°	501.1	432.3	381.3	336.2	322.6	313.9	294.3	285.2	278.4	276.5	278.8
42.5°	414.6	355.8	316.2	286.1	276.5	265.6	257.4	246.0	244.6	241.5	245.6
45°	348.1	297.0	267.4	245.6	237.4	233.3	224.1	217.3	214.6	214.1	217.3
47.5°	295.2	255.6	229.6	215.9	209.6	205.5	197.7	195.0	192.3	193.2	191.8
50°	247.8	218.2	201.4	189.1	185.0	180.9	175.9	173.1	171.8	171.8	171.3
52.5°	212.8	188.2	177.2	165.8	164.0	161.7	156.3	154.4	152.2	151.7	153.5
55°	182.2	165.4	154.4	147.6	145.8	141.2	139.0	136.7	135.3	134.4	134.9
57.5°	155.8	143.1	135.8	129.8	126.7	124.8	120.7	120.3	119.4	119.4	118.9
60°	133.9	124.8	116.2	112.5	110.3	108.0	107.5	104.8	103.4	104.3	103.9
62.5°	113.4	106.1	101.1	97.0	95.7	93.8	92.5	91.6	90.2	90.7	90.7
65°	94.8	88.8	85.2	81.5	81.1	79.3	78.8	77.9	77.9	77.4	78.4
67.5°	77.9	73.8	70.6	68.3	67.0	67.4	65.6	64.2	64.2	63.8	65.1
70°	62.0	59.7	56.5	53.8	51.9	51.9	49.7	49.2	49.2	49.2	48.7
72.5°	47.8	43.7	42.4	41.5	41.5	41.5	40.5	40.5	40.1	40.5	40.1
75°	35.5	35.1	34.2	33.7	33.7	33.3	32.8	32.8	32.8	32.8	32.8
77.5°	27.8	27.8	26.9	26.4	26.4	26.4	26.0	26.0	25.5	25.5	25.5
80°	20.5	20.5	19.6	19.6	19.6	19.1	19.1	19.1	19.6	19.1	19.1
82.5°	14.1	14.1	13.7	14.1	13.7	13.2	13.2	13.2	12.8	13.2	13.2
85°	8.2	8.2	7.7	7.3	7.7	7.7	7.3	7.7	7.3	7.7	7.3
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°	18.7	19.4	20.1	20.8	21.1	21.3	21.6	21.9	22.3	22.6	22.3
92.5°	20.7	21.9	23.0	24.2	24.8	24.9	25.1	25.2	25.4	25.6	25.4
95°	24.5	25.7	26.8	28.0	28.6	28.6	28.6	28.6	28.6	28.6	28.6
97.5°	25.4	26.8	28.1	29.4	30.1	30.2	30.3	30.5	30.6	30.8	30.6
100°	26.1	27.5	28.8	30.1	30.8	30.9	31.1	31.2	31.4	31.6	31.4
102.5°	50.1	44.6	39.1	33.6	30.8	31.0	31.3	31.6	32.0	32.3	32.0
105°	135.0	105.5	75.9	46.4	31.6	31.8	32.1	32.4	32.8	33.1	32.8
107.5°	266.8	241.0	215.3	189.6	176.7	165.8	143.9	122.0	100.1	78.2	100.1
110°	333.6	328.1	322.6	317.1	314.3	302.3	278.4	254.5	230.6	206.7	230.6

TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	387.9	389.4	390.9	392.4	393.2	393.0	392.7	392.4	392.0	391.7	392.0
115°	433.2	434.9	436.6	438.3	439.1	439.4	440.1	440.8	441.4	442.1	441.4
117.5°	477.2	478.6	479.9	481.2	481.9	482.0	482.2	482.3	482.5	482.7	482.5
120°	520.1	521.4	522.8	524.1	524.8	524.8	524.8	524.8	524.8	524.8	524.8
122.5°	562.4	563.3	564.1	565.0	565.4	565.5	565.6	565.8	565.9	566.1	565.9
125°	601.8	602.1	602.5	602.8	603.0	603.2	603.5	603.8	604.2	604.5	604.2
127.5°	641.8	642.3	642.8	643.3	643.6	643.4	643.1	642.7	642.4	642.0	642.4
130°	677.3	677.9	678.6	679.3	679.6	679.4	679.1	678.8	678.4	678.1	678.4
132.5°	711.2	711.8	712.5	713.2	713.5	713.2	712.7	712.2	711.7	711.2	711.7
135°	745.5	746.0	746.5	747.0	747.3	747.0	746.5	746.0	745.5	745.0	745.5
137.5°	775.9	776.8	777.6	778.5	778.9	778.7	778.4	778.1	777.7	777.4	777.7
140°	805.1	805.7	806.4	807.1	807.4	807.2	806.9	806.6	806.2	805.9	806.2
142.5°	832.8	833.3	833.8	834.3	834.5	834.3	833.8	833.3	832.8	832.3	832.8
145°	858.1	858.5	858.8	859.1	859.3	859.3	859.3	859.3	859.3	859.3	859.3
147.5°	881.4	881.8	882.1	882.4	882.6	882.2	881.4	880.5	879.7	878.9	879.7
150°	902.5	902.9	903.2	903.5	903.7	903.4	902.9	902.4	901.9	901.4	901.9
152.5°	920.9	921.5	922.2	922.9	923.2	922.8	922.0	921.1	920.3	919.5	920.3
155°	937.6	938.4	939.3	940.1	940.5	940.0	939.0	938.0	937.0	936.0	937.0
157.5°	952.8	953.8	954.8	955.8	956.3	955.6	954.3	953.0	951.6	950.3	951.6
160°	965.6	966.6	967.6	968.6	969.1	968.5	967.3	966.2	965.0	963.8	965.0
162.5°	977.1	978.2	979.4	980.5	981.1	980.6	979.6	978.6	977.6	976.6	977.6
165°	986.9	988.3	989.6	990.9	991.6	991.0	989.9	988.7	987.6	986.4	987.6
167.5°	995.2	996.6	997.9	999.2	999.9	999.2	997.9	996.6	995.2	993.9	995.2
170°	1002.0	1003.4	1004.7	1006.0	1006.7	1006.0	1004.7	1003.4	1002.0	1000.7	1002.0
172.5°	1006.5	1007.9	1009.2	1010.5	1011.2	1010.4	1008.9	1007.4	1005.9	1004.4	1005.9
175°	1010.1	1011.3	1012.4	1013.6	1014.2	1013.5	1012.2	1010.9	1009.5	1008.2	1009.5
177.5°	1011.7	1013.1	1014.4	1015.7	1016.4	1015.6	1013.9	1012.2	1010.6	1008.9	1010.6
180°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9

TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1
2.5°	574.5	571.8	569.9	568.6	567.2	571.3	565.8	559.9	555.8	553.1	552.2
5°	634.6	628.7	623.7	619.6	620.5	620.5	610.9	600.5	591.3	586.3	580.9
7.5°	704.3	697.9	687.9	685.6	683.8	672.4	662.9	643.7	632.3	621.0	610.9
10°	773.6	765.4	755.8	752.6	748.1	733.9	719.4	694.8	680.6	659.7	646.5
12.5°	838.3	828.2	818.7	816.4	809.6	797.3	772.2	746.7	722.5	700.2	677.0
15°	892.5	889.7	875.2	866.1	851.0	834.2	828.7	794.1	763.6	740.3	698.4
17.5°	938.0	925.3	911.6	905.7	899.8	880.2	860.6	825.1	792.3	758.1	731.2
20°	974.5	960.4	950.8	942.1	939.4	917.1	886.1	854.7	818.7	780.4	745.3
22.5°	976.3	974.5	968.1	963.1	957.6	943.0	918.4	879.3	841.0	799.1	753.1
25°	938.5	935.8	954.0	949.4	953.1	947.6	934.4	901.6	856.9	807.7	761.3
27.5°	824.6	852.4	881.1	891.1	897.9	917.5	923.9	905.7	869.7	817.3	765.4
30°	669.7	706.6	753.1	778.1	797.3	833.7	881.1	887.0	870.2	828.2	764.5
32.5°	525.7	559.5	596.8	626.4	651.9	726.6	790.4	836.4	844.6	822.8	766.7
35°	423.7	438.3	473.8	502.0	536.7	600.5	675.6	749.9	800.0	802.7	759.9
37.5°	349.4	357.2	388.2	404.1	424.6	480.6	550.8	647.8	725.7	762.6	740.8
40°	289.3	307.1	324.8	333.9	348.5	387.2	454.7	530.7	627.3	695.7	711.2
42.5°	251.0	258.8	270.2	282.9	292.0	325.7	370.8	440.5	527.6	622.8	665.6
45°	221.4	224.1	236.0	244.2	253.8	277.4	309.3	367.7	444.2	538.0	610.9
47.5°	196.8	202.3	208.7	213.7	220.0	238.3	265.6	308.0	375.4	459.2	537.6
50°	174.9	178.1	186.3	188.6	193.2	205.9	226.9	259.2	314.8	381.8	462.9
52.5°	154.4	160.4	163.6	166.7	170.8	181.3	195.0	221.4	263.3	326.2	395.0
55°	138.5	140.3	144.9	147.6	150.8	158.1	169.9	189.5	222.3	272.4	337.6
57.5°	123.0	123.0	127.6	129.8	133.0	138.5	149.0	164.0	187.7	225.1	284.7
60°	106.6	107.1	110.7	113.4	114.4	119.8	128.5	140.3	158.5	185.9	234.6
62.5°	92.0	94.3	96.1	97.0	100.2	103.4	110.7	118.9	131.7	155.8	190.4
65°	79.7	80.2	81.5	82.5	83.8	87.5	92.9	98.4	109.3	127.1	155.4
67.5°	65.6	67.4	69.2	69.2	70.6	72.4	77.9	82.5	90.7	101.1	120.3
70°	49.2	50.1	52.8	54.2	56.0	59.2	62.0	64.7	71.1	78.8	93.4
72.5°	41.0	41.0	41.9	42.4	42.4	44.6	48.7	51.5	54.7	60.1	70.2
75°	32.8	32.8	34.2	33.7	34.6	35.5	36.0	37.8	39.6	43.7	49.7
77.5°	26.0	26.4	26.4	26.9	26.9	27.3	27.8	28.7	29.6	31.9	34.6
80°	19.1	19.6	19.6	20.0	20.0	20.5	21.0	21.4	22.3	23.2	24.6
82.5°	13.2	13.7	13.7	14.1	13.7	14.1	14.6	14.6	15.0	15.9	16.4
85°	7.7	7.7	8.2	7.7	7.7	7.7	8.2	8.2	8.7	10.0	10.0
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°	21.9	21.6	21.3	21.1	20.8	20.1	19.4	18.7	18.0	15.8	13.7
92.5°	25.2	25.1	24.9	24.8	24.2	23.0	21.9	20.7	19.5	18.0	16.5
95°	28.6	28.6	28.6	28.6	28.0	26.8	25.7	24.5	23.3	21.5	19.6
97.5°	30.5	30.3	30.2	30.1	29.4	28.1	26.8	25.4	24.1	32.6	41.1
100°	31.2	31.1	30.9	30.8	30.1	28.8	27.5	26.1	24.8	50.9	76.9
102.5°	31.6	31.3	31.0	30.8	33.6	39.1	44.6	50.1	55.6	84.7	113.7
105°	32.4	32.1	31.8	31.6	46.4	75.9	105.5	135.0	164.6	179.6	194.7
107.5°	122.0	143.9	165.8	176.7	189.6	215.3	241.0	266.8	292.5	290.0	287.5
110°	254.5	278.4	302.3	314.3	317.1	322.6	328.1	333.6	339.1	337.3	335.4

TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	392.4	392.7	393.0	393.2	392.4	390.9	389.4	387.9	386.4	384.6	382.8
115°	440.8	440.1	439.4	439.1	438.3	436.6	434.9	433.2	431.5	430.0	428.5
117.5°	482.3	482.2	482.0	481.9	481.2	479.9	478.6	477.2	475.9	475.1	474.2
120°	524.8	524.8	524.8	524.8	524.1	522.8	521.4	520.1	518.7	518.2	517.7
122.5°	565.8	565.6	565.5	565.4	565.0	564.1	563.3	562.4	561.6	560.9	560.3
125°	603.8	603.5	603.2	603.0	602.8	602.5	602.1	601.8	601.4	600.7	600.1
127.5°	642.7	643.1	643.4	643.6	643.3	642.8	642.3	641.8	641.3	640.5	639.6
130°	678.8	679.1	679.4	679.6	679.3	678.6	677.9	677.3	676.6	675.9	675.3
132.5°	712.2	712.7	713.2	713.5	713.2	712.5	711.8	711.2	710.5	710.0	709.5
135°	746.0	746.5	747.0	747.3	747.0	746.5	746.0	745.5	745.0	744.3	743.7
137.5°	778.1	778.4	778.7	778.9	778.5	777.6	776.8	775.9	775.1	774.8	774.4
140°	806.6	806.9	807.2	807.4	807.1	806.4	805.7	805.1	804.4	803.9	803.4
142.5°	833.3	833.8	834.3	834.5	834.3	833.8	833.3	832.8	832.3	831.8	831.3
145°	859.3	859.3	859.3	859.3	859.1	858.8	858.5	858.1	857.8	857.5	857.1
147.5°	880.5	881.4	882.2	882.6	882.4	882.1	881.8	881.4	881.1	880.8	880.4
150°	902.4	902.9	903.4	903.7	903.5	903.2	902.9	902.5	902.2	901.9	901.5
152.5°	921.1	922.0	922.8	923.2	922.9	922.2	921.5	920.9	920.2	920.0	919.9
155°	938.0	939.0	940.0	940.5	940.1	939.3	938.4	937.6	936.8	936.6	936.4
157.5°	953.0	954.3	955.6	956.3	955.8	954.8	953.8	952.8	951.8	952.0	952.1
160°	966.2	967.3	968.5	969.1	968.6	967.6	966.6	965.6	964.6	964.8	964.9
162.5°	978.6	979.6	980.6	981.1	980.5	979.4	978.2	977.1	975.9	976.1	976.2
165°	988.7	989.9	991.0	991.6	990.9	989.6	988.3	986.9	985.6	985.8	986.0
167.5°	996.6	997.9	999.2	999.9	999.2	997.9	996.6	995.2	993.9	993.9	993.9
170°	1003.4	1004.7	1006.0	1006.7	1006.0	1004.7	1003.4	1002.0	1000.7	1000.7	1000.7
172.5°	1007.4	1008.9	1010.4	1011.2	1010.5	1009.2	1007.9	1006.5	1005.2	1005.0	1004.8
175°	1010.9	1012.2	1013.5	1014.2	1013.6	1012.4	1011.3	1010.1	1008.9	1008.7	1008.6
177.5°	1012.2	1013.9	1015.6	1016.4	1015.7	1014.4	1013.1	1011.7	1010.4	1010.2	1010.1
180°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9

TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1
2.5°	550.8	548.5	546.2	546.2	541.2	536.7	534.4	535.3	532.6	528.9	525.3
5°	574.9	565.8	564.0	559.0	552.2	542.6	537.6	533.0	527.6	520.3	513.4
7.5°	597.3	585.4	579.0	574.0	560.8	547.6	536.7	529.4	519.8	508.9	500.7
10°	626.4	604.6	597.7	586.3	567.7	549.0	536.2	524.4	511.2	498.4	487.5
12.5°	649.7	624.6	611.8	600.5	576.3	552.6	531.2	516.6	500.7	486.6	472.4
15°	676.1	647.8	625.5	611.8	581.3	552.6	528.5	508.0	490.2	472.9	460.6
17.5°	688.8	653.3	643.3	623.7	579.5	550.8	521.2	499.3	477.9	457.9	443.3
20°	708.9	667.4	642.4	629.2	590.0	547.6	513.0	487.9	465.6	444.2	428.7
22.5°	710.2	665.1	648.7	623.7	575.4	538.0	505.7	475.2	449.2	429.2	413.2
25°	707.1	661.0	638.3	618.2	578.1	532.6	491.1	461.0	435.5	412.3	393.6
27.5°	705.7	649.2	627.8	607.7	562.6	516.6	482.5	448.3	419.1	398.6	379.5
30°	703.9	636.4	610.5	587.2	545.8	504.3	463.3	433.7	405.9	380.0	360.8
32.5°	692.0	619.1	592.7	568.1	523.5	482.0	449.7	418.2	388.2	364.0	346.7
35°	688.4	603.2	568.6	542.1	498.4	461.5	427.3	401.4	373.1	349.0	328.5
37.5°	677.9	586.8	549.4	515.7	470.2	435.1	410.0	384.1	356.7	330.8	314.3
40°	659.7	567.7	525.3	490.7	443.7	408.2	385.0	365.8	339.0	315.7	295.7
42.5°	632.8	548.1	502.5	466.1	414.1	380.9	361.7	343.5	320.7	296.6	280.2
45°	601.8	522.1	479.7	439.2	386.3	354.0	333.9	323.0	302.0	281.5	262.4
47.5°	559.5	495.2	453.3	411.4	357.6	326.2	310.2	299.3	284.7	262.4	246.9
50°	506.1	460.6	421.0	383.6	329.4	299.3	283.4	275.2	262.9	246.9	231.9
52.5°	446.9	420.5	387.7	353.1	300.7	272.4	257.9	251.5	242.4	227.3	214.6
55°	387.2	375.9	353.5	319.4	270.6	247.4	234.6	226.4	219.6	208.7	197.7
57.5°	333.9	328.5	313.0	286.6	245.6	221.4	210.5	205.0	199.5	191.3	180.4
60°	278.8	284.7	268.8	255.6	218.2	197.3	187.7	181.8	179.0	171.8	164.9
62.5°	231.0	236.4	227.3	217.3	190.9	172.2	166.3	160.8	159.0	152.6	145.8
65°	187.7	194.5	187.7	182.2	166.3	150.8	143.5	140.8	139.0	134.9	129.4
67.5°	149.4	156.3	153.1	146.2	141.2	128.5	124.4	121.6	120.7	117.5	113.0
70°	112.5	122.1	123.0	118.9	114.4	108.4	105.7	104.8	102.5	99.8	97.0
72.5°	81.1	92.0	92.5	92.5	89.7	89.7	87.0	85.6	85.6	82.9	79.7
75°	59.7	67.0	67.9	68.8	70.2	71.5	69.7	69.7	69.2	66.5	65.1
77.5°	39.6	46.0	48.3	51.5	53.3	53.3	54.2	55.1	54.2	52.8	51.9
80°	25.5	30.1	32.8	34.6	37.4	38.7	40.1	40.5	39.6	39.2	37.8
82.5°	16.9	18.2	19.6	21.9	25.1	27.3	27.3	26.9	27.8	27.3	26.9
85°	9.6	10.5	10.9	11.4	13.2	15.5	15.9	16.4	17.3	16.4	15.5
87.5°	3.6	4.1	4.1	4.1	5.0	5.5	6.8	8.7	8.2	7.3	7.3
90°	11.5	9.4	8.3	7.5	5.8	4.1	2.5	0.8	2.5	4.1	5.8
92.5°	15.0	13.5	12.8	13.3	14.3	15.3	16.3	17.3	16.3	15.3	14.3
95°	17.8	15.9	15.0	18.4	25.3	32.2	39.0	45.9	39.0	32.2	25.3
97.5°	49.6	58.1	62.4	64.7	69.4	74.1	78.8	83.5	78.8	74.1	69.4
100°	103.0	129.1	142.1	140.4	137.1	133.8	130.4	127.1	130.4	133.8	137.1
102.5°	142.8	171.9	186.4	185.3	183.2	181.0	178.9	176.7	178.9	181.0	183.2
105°	209.7	224.8	232.3	231.4	229.5	227.7	225.8	224.0	225.8	227.7	229.5
107.5°	285.0	282.5	281.2	280.4	278.9	277.4	275.9	274.4	275.9	277.4	278.9
110°	333.6	331.7	330.8	330.1	328.8	327.5	326.1	324.8	326.1	327.5	328.8

TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	380.9	379.1	378.2	377.6	376.4	375.3	374.1	372.9	374.1	375.3	376.4
115°	427.0	425.5	424.8	424.3	423.3	422.3	421.3	420.3	421.3	422.3	423.3
117.5°	473.4	472.5	472.1	471.5	470.4	469.2	468.1	466.9	468.1	469.2	470.4
120°	517.2	516.7	516.5	515.7	514.2	512.7	511.2	509.7	511.2	512.7	514.2
122.5°	559.6	558.9	558.6	558.0	556.8	555.7	554.5	553.3	554.5	555.7	556.8
125°	599.4	598.7	598.4	597.7	596.4	595.1	593.7	592.4	593.7	595.1	596.4
127.5°	638.8	637.9	637.5	636.8	635.5	634.2	632.8	631.5	632.8	634.2	635.5
130°	674.6	673.9	673.6	672.9	671.6	670.3	668.9	667.6	668.9	670.3	671.6
132.5°	709.0	708.5	708.2	707.5	706.2	704.9	703.5	702.2	703.5	704.9	706.2
135°	743.0	742.3	742.0	741.5	740.5	739.5	738.5	737.5	738.5	739.5	740.5
137.5°	774.1	773.8	773.6	772.9	771.6	770.3	768.9	767.6	768.9	770.3	771.6
140°	802.9	802.4	802.2	801.7	800.7	799.7	798.7	797.7	798.7	799.7	800.7
142.5°	830.8	830.3	830.0	829.5	828.5	827.5	826.5	825.5	826.5	827.5	828.5
145°	856.8	856.5	856.3	855.7	854.6	853.4	852.3	851.1	852.3	853.4	854.6
147.5°	880.1	879.8	879.6	879.2	878.4	877.5	876.7	875.9	876.7	877.5	878.4
150°	901.2	900.9	900.7	900.4	899.9	899.4	898.9	898.4	898.9	899.4	899.9
152.5°	919.7	919.6	919.5	919.4	919.2	919.1	918.9	918.7	918.9	919.1	919.2
155°	936.3	936.1	936.0	936.2	936.5	936.8	937.2	937.5	937.2	936.8	936.5
157.5°	952.3	952.4	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5	952.5
160°	965.1	965.2	965.3	965.4	965.6	965.7	965.9	966.1	965.9	965.7	965.6
162.5°	976.4	976.5	976.6	976.9	977.4	977.9	978.4	978.9	978.4	977.9	977.4
165°	986.1	986.3	986.4	986.6	987.1	987.6	988.1	988.6	988.1	987.6	987.1
167.5°	993.9	993.9	993.9	994.2	994.9	995.6	996.2	996.9	996.2	995.6	994.9
170°	1000.7	1000.7	1000.7	1001.0	1001.7	1002.4	1003.0	1003.7	1003.0	1002.4	1001.7
172.5°	1004.7	1004.5	1004.4	1004.8	1005.7	1006.5	1007.4	1008.2	1007.4	1006.5	1005.7
175°	1008.4	1008.3	1008.2	1008.6	1009.4	1010.3	1011.1	1011.9	1011.1	1010.3	1009.4
177.5°	1009.9	1009.8	1009.7	1010.1	1010.9	1011.8	1012.6	1013.4	1012.6	1011.8	1010.9
180°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9

TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1
2.5°	525.3	523.0	522.1	519.8	514.3	510.7	506.6	503.9	504.3	502.0	503.4
5°	508.9	508.4	505.2	500.7	492.9	488.8	481.5	477.9	476.1	476.5	473.8
7.5°	495.2	491.1	488.8	481.5	474.3	465.6	459.7	456.5	453.8	451.0	449.2
10°	479.7	476.1	472.4	464.7	454.7	446.5	438.3	435.1	431.0	429.2	427.8
12.5°	463.3	461.0	456.5	447.4	436.0	428.2	418.7	416.9	411.4	407.7	406.8
15°	448.3	446.9	438.7	428.2	416.9	409.1	400.9	395.4	386.3	388.2	385.0
17.5°	432.3	426.4	421.4	407.3	401.8	390.0	380.4	377.7	371.3	367.2	363.1
20°	414.6	410.9	404.6	395.4	382.2	368.6	361.3	356.7	353.1	346.7	344.9
22.5°	397.7	393.2	387.7	375.9	364.5	353.1	343.1	339.0	334.4	329.8	327.1
25°	384.5	377.7	371.8	357.2	345.8	336.2	329.8	323.0	316.6	313.9	313.0
27.5°	364.0	359.9	354.0	340.3	329.8	319.4	313.4	308.9	302.0	298.9	296.1
30°	350.8	342.6	335.8	324.8	314.3	303.0	297.5	292.0	287.9	283.8	280.6
32.5°	333.0	326.7	321.2	310.2	299.8	289.3	283.4	275.2	272.9	269.7	266.1
35°	315.7	311.6	305.7	293.8	282.5	275.2	268.8	261.0	258.3	256.0	252.8
37.5°	299.3	293.4	289.3	277.9	267.9	259.2	254.2	247.8	246.0	243.3	241.0
40°	285.2	279.3	275.2	263.8	253.3	244.2	241.0	234.6	231.9	228.7	227.3
42.5°	269.2	264.2	258.8	250.6	239.6	230.5	224.1	220.5	216.9	215.5	212.8
45°	252.4	247.8	243.7	234.6	223.2	216.9	211.4	206.4	203.6	201.4	199.5
47.5°	237.8	233.7	228.2	218.2	209.1	203.2	197.7	192.7	190.0	187.2	185.0
50°	221.0	218.7	212.8	203.2	194.5	187.7	182.7	178.1	176.3	173.1	169.5
52.5°	205.9	201.8	196.8	189.1	181.3	173.1	166.3	163.6	160.4	158.5	155.4
55°	188.2	185.4	180.0	173.1	164.9	158.1	153.1	149.4	145.3	143.5	139.4
57.5°	173.1	168.1	165.4	156.7	149.0	142.1	138.5	134.9	130.3	127.6	125.7
60°	156.7	152.2	148.1	140.8	135.3	128.0	122.6	119.4	116.2	112.5	110.7
62.5°	140.8	137.1	132.1	126.2	119.4	113.4	109.3	104.8	103.0	99.3	97.9
65°	123.5	120.7	116.6	109.8	104.3	99.3	95.2	91.6	89.7	88.4	87.5
67.5°	108.0	104.3	101.6	95.7	89.7	85.6	83.4	81.1	78.8	77.4	76.1
70°	92.0	89.3	86.6	81.1	77.0	73.3	71.5	69.7	68.3	67.0	65.6
72.5°	75.6	74.3	71.5	67.9	64.7	62.0	60.6	58.3	56.9	54.7	53.8
75°	62.4	60.1	58.8	55.6	52.8	50.6	48.7	46.0	44.2	43.3	42.8
77.5°	49.2	48.3	46.5	43.7	42.4	40.1	37.4	36.4	35.5	35.5	35.1
80°	36.9	35.5	34.2	31.9	30.5	28.7	28.7	28.7	28.2	28.7	28.2
82.5°	25.1	24.1	23.2	21.9	21.4	21.4	21.9	21.9	21.9	21.9	21.9
85°	14.6	14.6	14.6	15.0	14.6	14.6	15.0	15.5	15.0	15.0	14.6
87.5°	6.8	6.8	7.3	7.3	7.7	7.7	7.7	7.7	7.7	7.7	8.2
90°	7.5	8.3	9.4	11.5	13.7	15.8	18.0	18.7	19.4	20.1	20.8
92.5°	13.3	12.8	13.5	15.0	16.5	18.0	19.5	20.7	21.9	23.0	24.2
95°	18.4	15.0	15.9	17.8	19.6	21.5	23.3	24.5	25.7	26.8	28.0
97.5°	64.7	62.4	58.1	49.6	41.1	32.6	24.1	25.4	26.8	28.1	29.4
100°	140.4	142.1	129.1	103.0	76.9	50.9	24.8	26.1	27.5	28.8	30.1
102.5°	185.3	186.4	171.9	142.8	113.7	84.7	55.6	50.1	44.6	39.1	33.6
105°	231.4	232.3	224.8	209.7	194.7	179.6	164.6	135.0	105.5	75.9	46.4
107.5°	280.4	281.2	282.5	285.0	287.5	290.0	292.5	266.8	241.0	215.3	189.6
110°	330.1	330.8	331.7	333.6	335.4	337.3	339.1	333.6	328.1	322.6	317.1

TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	377.6	378.2	379.1	380.9	382.8	384.6	386.4	387.9	389.4	390.9	392.4
115°	424.3	424.8	425.5	427.0	428.5	430.0	431.5	433.2	434.9	436.6	438.3
117.5°	471.5	472.1	472.5	473.4	474.2	475.1	475.9	477.2	478.6	479.9	481.2
120°	515.7	516.5	516.7	517.2	517.7	518.2	518.7	520.1	521.4	522.8	524.1
122.5°	558.0	558.6	558.9	559.6	560.3	560.9	561.6	562.4	563.3	564.1	565.0
125°	597.7	598.4	598.7	599.4	600.1	600.7	601.4	601.8	602.1	602.5	602.8
127.5°	636.8	637.5	637.9	638.8	639.6	640.5	641.3	641.8	642.3	642.8	643.3
130°	672.9	673.6	673.9	674.6	675.3	675.9	676.6	677.3	677.9	678.6	679.3
132.5°	707.5	708.2	708.5	709.0	709.5	710.0	710.5	711.2	711.8	712.5	713.2
135°	741.5	742.0	742.3	743.0	743.7	744.3	745.0	745.5	746.0	746.5	747.0
137.5°	772.9	773.6	773.8	774.1	774.4	774.8	775.1	775.9	776.8	777.6	778.5
140°	801.7	802.2	802.4	802.9	803.4	803.9	804.4	805.1	805.7	806.4	807.1
142.5°	829.5	830.0	830.3	830.8	831.3	831.8	832.3	832.8	833.3	833.8	834.3
145°	855.7	856.3	856.5	856.8	857.1	857.5	857.8	858.1	858.5	858.8	859.1
147.5°	879.2	879.6	879.8	880.1	880.4	880.8	881.1	881.4	881.8	882.1	882.4
150°	900.4	900.7	900.9	901.2	901.5	901.9	902.2	902.5	902.9	903.2	903.5
152.5°	919.4	919.5	919.6	919.7	919.9	920.0	920.2	920.9	921.5	922.2	922.9
155°	936.2	936.0	936.1	936.3	936.4	936.6	936.8	937.6	938.4	939.3	940.1
157.5°	952.5	952.5	952.4	952.3	952.1	952.0	951.8	952.8	953.8	954.8	955.8
160°	965.4	965.3	965.2	965.1	964.9	964.8	964.6	965.6	966.6	967.6	968.6
162.5°	976.9	976.6	976.5	976.4	976.2	976.1	975.9	977.1	978.2	979.4	980.5
165°	986.6	986.4	986.3	986.1	986.0	985.8	985.6	986.9	988.3	989.6	990.9
167.5°	994.2	993.9	993.9	993.9	993.9	993.9	993.9	995.2	996.6	997.9	999.2
170°	1001.0	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1002.0	1003.4	1004.7	1006.0
172.5°	1004.8	1004.4	1004.5	1004.7	1004.8	1005.0	1005.2	1006.5	1007.9	1009.2	1010.5
175°	1008.6	1008.2	1008.3	1008.4	1008.6	1008.7	1008.9	1010.1	1011.3	1012.4	1013.6
177.5°	1010.1	1009.7	1009.8	1009.9	1010.1	1010.2	1010.4	1011.7	1013.1	1014.4	1015.7
180°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9

TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1
2.5°	503.0	503.4	502.0	499.3	498.9	499.8	502.5	501.6	499.3	503.4	499.8
5°	475.2	472.9	472.0	472.9	470.2	468.8	471.5	470.2	471.5	472.0	473.3
7.5°	448.3	448.7	446.0	446.5	442.8	443.7	443.7	443.7	445.1	446.0	447.8
10°	425.1	426.0	422.8	423.2	420.5	418.7	420.0	422.8	422.8	422.8	423.7
12.5°	406.4	402.3	400.0	399.5	396.4	395.4	398.2	399.1	401.4	401.4	402.7
15°	383.1	382.2	380.4	380.4	372.7	374.5	375.4	378.6	383.1	379.5	380.4
17.5°	362.2	359.9	357.6	356.7	355.8	353.1	356.7	356.3	359.0	359.5	360.8
20°	343.5	341.7	337.1	337.6	338.5	334.4	336.7	336.7	339.4	342.1	345.3
22.5°	325.3	323.5	321.2	322.1	319.4	318.4	318.4	320.7	323.9	326.2	325.7
25°	311.2	308.0	306.6	305.2	303.9	304.8	303.4	305.7	308.0	309.3	308.0
27.5°	295.2	293.8	291.1	289.7	287.5	288.4	289.3	291.1	292.5	292.5	293.8
30°	279.7	277.9	277.0	275.6	275.6	273.8	274.3	276.1	277.4	278.8	280.6
32.5°	264.7	263.3	262.0	262.0	261.0	260.6	260.1	262.9	262.9	265.6	265.6
35°	252.4	250.1	250.1	247.8	248.7	248.3	247.4	249.2	249.7	251.5	251.0
37.5°	238.7	238.7	237.8	235.5	233.7	234.2	236.4	236.4	237.8	237.4	238.7
40°	225.1	224.1	224.1	222.8	222.3	221.9	222.3	222.8	225.1	224.6	225.1
42.5°	211.4	211.8	209.6	209.6	209.6	208.2	208.7	209.1	210.0	210.9	212.3
45°	198.2	197.3	196.8	195.9	195.0	195.4	195.0	196.8	196.4	197.3	198.6
47.5°	184.1	182.7	182.2	180.4	180.4	181.3	180.9	182.2	182.7	184.1	183.1
50°	170.4	168.6	167.2	167.7	164.9	165.8	165.8	167.2	168.6	169.0	169.9
52.5°	154.4	154.0	153.5	151.3	150.8	150.3	150.8	151.3	153.1	154.4	154.9
55°	139.0	138.5	135.8	134.9	133.5	133.5	134.4	134.9	138.0	138.5	140.3
57.5°	124.8	123.5	120.3	119.8	119.8	119.8	118.5	120.3	121.2	123.5	123.5
60°	109.3	109.3	106.6	106.6	107.1	106.6	106.6	107.1	107.1	108.9	109.8
62.5°	97.0	96.6	96.6	95.7	95.2	95.7	95.2	95.2	95.7	97.0	98.4
65°	86.1	85.6	85.2	84.7	83.8	83.8	84.3	85.2	85.2	86.1	86.6
67.5°	75.6	75.6	74.7	74.7	74.3	73.8	74.3	73.8	75.6	75.6	76.1
70°	65.1	64.7	63.3	62.9	61.5	62.0	62.0	63.3	63.8	64.7	65.6
72.5°	52.4	52.4	51.5	50.6	51.0	50.1	50.1	50.6	50.6	51.9	52.4
75°	43.3	42.4	41.9	42.4	41.9	42.8	41.9	41.9	42.8	42.8	42.8
77.5°	35.5	35.5	35.1	35.1	35.5	35.1	35.5	35.5	35.5	35.1	35.5
80°	29.2	28.7	28.7	28.7	28.2	28.2	28.2	28.2	28.2	28.2	28.2
82.5°	21.9	21.9	21.4	21.9	21.9	21.4	21.9	21.4	21.4	21.9	21.9
85°	14.6	15.5	14.6	14.6	15.0	15.0	15.5	15.0	15.5	14.6	15.0
87.5°	7.7	8.2	8.2	7.7	7.7	8.2	8.2	8.2	8.7	7.7	8.2
90°	21.1	21.3	21.6	21.9	22.3	22.6	22.3	21.9	21.6	21.3	21.1
92.5°	24.8	24.9	25.1	25.2	25.4	25.6	25.4	25.2	25.1	24.9	24.8
95°	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
97.5°	30.1	30.2	30.3	30.5	30.6	30.8	30.6	30.5	30.3	30.2	30.1
100°	30.8	30.9	31.1	31.2	31.4	31.6	31.4	31.2	31.1	30.9	30.8
102.5°	30.8	31.0	31.3	31.6	32.0	32.3	32.0	31.6	31.3	31.0	30.8
105°	31.6	31.8	32.1	32.4	32.8	33.1	32.8	32.4	32.1	31.8	31.6
107.5°	176.7	165.8	143.9	122.0	100.1	78.2	100.1	122.0	143.9	165.8	176.7
110°	314.3	302.3	278.4	254.5	230.6	206.7	230.6	254.5	278.4	302.3	314.3

TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	393.2	393.0	392.7	392.4	392.0	391.7	392.0	392.4	392.7	393.0	393.2
115°	439.1	439.4	440.1	440.8	441.4	442.1	441.4	440.8	440.1	439.4	439.1
117.5°	481.9	482.0	482.2	482.3	482.5	482.7	482.5	482.3	482.2	482.0	481.9
120°	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8	524.8
122.5°	565.4	565.5	565.6	565.8	565.9	566.1	565.9	565.8	565.6	565.5	565.4
125°	603.0	603.2	603.5	603.8	604.2	604.5	604.2	603.8	603.5	603.2	603.0
127.5°	643.6	643.4	643.1	642.7	642.4	642.0	642.4	642.7	643.1	643.4	643.6
130°	679.6	679.4	679.1	678.8	678.4	678.1	678.4	678.8	679.1	679.4	679.6
132.5°	713.5	713.2	712.7	712.2	711.7	711.2	711.7	712.2	712.7	713.2	713.5
135°	747.3	747.0	746.5	746.0	745.5	745.0	745.5	746.0	746.5	747.0	747.3
137.5°	778.9	778.7	778.4	778.1	777.7	777.4	777.7	778.1	778.4	778.7	778.9
140°	807.4	807.2	806.9	806.6	806.2	805.9	806.2	806.6	806.9	807.2	807.4
142.5°	834.5	834.3	833.8	833.3	832.8	832.3	832.8	833.3	833.8	834.3	834.5
145°	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3
147.5°	882.6	882.2	881.4	880.5	879.7	878.9	879.7	880.5	881.4	882.2	882.6
150°	903.7	903.4	902.9	902.4	901.9	901.4	901.9	902.4	902.9	903.4	903.7
152.5°	923.2	922.8	922.0	921.1	920.3	919.5	920.3	921.1	922.0	922.8	923.2
155°	940.5	940.0	939.0	938.0	937.0	936.0	937.0	938.0	939.0	940.0	940.5
157.5°	956.3	955.6	954.3	953.0	951.6	950.3	951.6	953.0	954.3	955.6	956.3
160°	969.1	968.5	967.3	966.2	965.0	963.8	965.0	966.2	967.3	968.5	969.1
162.5°	981.1	980.6	979.6	978.6	977.6	976.6	977.6	978.6	979.6	980.6	981.1
165°	991.6	991.0	989.9	988.7	987.6	986.4	987.6	988.7	989.9	991.0	991.6
167.5°	999.9	999.2	997.9	996.6	995.2	993.9	995.2	996.6	997.9	999.2	999.9
170°	1006.7	1006.0	1004.7	1003.4	1002.0	1000.7	1002.0	1003.4	1004.7	1006.0	1006.7
172.5°	1011.2	1010.4	1008.9	1007.4	1005.9	1004.4	1005.9	1007.4	1008.9	1010.4	1011.2
175°	1014.2	1013.5	1012.2	1010.9	1009.5	1008.2	1009.5	1010.9	1012.2	1013.5	1014.2
177.5°	1016.4	1015.6	1013.9	1012.2	1010.6	1008.9	1010.6	1012.2	1013.9	1015.6	1016.4
180°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1	532.1
2.5°	503.4	505.2	503.4	499.8	503.4	505.7	508.0	511.6	513.4	513.4	516.2
5°	474.7	478.4	477.0	476.1	479.7	482.0	485.6	490.2	495.2	498.4	502.0
7.5°	449.2	451.5	453.8	453.8	457.4	462.4	467.9	473.3	479.7	484.3	487.0
10°	426.9	428.7	430.1	431.9	437.4	442.8	450.1	456.9	462.4	467.4	472.0
12.5°	405.5	408.2	411.4	412.8	416.9	423.7	430.5	438.7	447.4	452.4	456.9
15°	385.0	386.3	390.0	394.1	397.7	405.0	413.7	422.3	429.6	437.4	441.5
17.5°	364.0	364.5	374.0	371.8	383.6	390.4	395.0	403.2	415.0	421.4	427.8
20°	343.5	348.1	352.2	354.4	360.8	368.6	381.8	388.2	397.7	403.6	409.1
22.5°	327.6	334.4	334.4	339.9	343.1	350.3	359.9	372.2	382.7	386.8	394.5
25°	313.4	316.6	322.1	323.9	329.8	336.2	342.6	355.8	367.2	372.7	378.1
27.5°	295.2	299.3	306.6	306.6	314.3	321.2	328.9	337.6	349.0	356.7	362.6
30°	281.1	285.2	288.4	293.4	296.6	303.0	316.6	323.0	333.0	339.9	347.2
32.5°	267.9	271.1	273.8	279.3	282.9	290.2	297.5	308.9	317.5	323.9	331.7
35°	253.3	256.5	260.1	264.2	269.7	276.5	283.4	292.9	301.6	307.5	313.9
37.5°	239.6	241.9	247.4	250.1	254.7	261.0	269.7	279.7	287.5	292.0	298.4
40°	226.4	228.2	232.3	237.4	240.5	245.6	254.7	263.3	272.9	278.4	283.4
42.5°	212.3	214.6	218.2	223.2	228.2	233.7	238.7	248.7	257.4	262.0	267.4
45°	200.0	201.4	204.1	209.1	214.1	218.2	226.0	235.1	243.3	246.9	252.8
47.5°	185.4	186.8	190.9	193.2	198.6	204.1	211.8	221.0	228.2	231.9	237.4
50°	170.4	171.8	174.5	179.5	183.1	189.1	195.9	203.6	212.8	217.8	221.0
52.5°	155.8	158.5	160.8	164.9	169.5	175.4	181.8	189.1	196.8	201.8	205.5
55°	141.2	143.5	146.2	148.5	154.0	159.5	166.7	173.6	180.4	185.0	189.1
57.5°	124.8	128.0	130.8	135.3	139.4	144.0	152.2	157.6	165.8	169.0	172.7
60°	110.7	113.9	116.2	119.8	123.5	129.4	134.9	141.7	148.5	152.6	157.2
62.5°	98.9	100.2	101.6	105.2	108.9	114.4	119.8	126.7	133.9	136.2	139.9
65°	87.0	88.4	90.7	93.8	96.6	99.8	105.7	111.2	118.0	121.6	123.0
67.5°	77.0	78.4	78.8	81.1	83.4	87.0	90.2	95.7	102.0	104.3	107.1
70°	65.6	67.9	68.3	70.2	71.1	73.3	77.0	81.1	86.1	90.2	92.5
72.5°	52.4	55.6	56.5	59.2	60.6	62.9	65.6	68.8	72.0	73.8	75.6
75°	42.8	43.7	44.2	46.5	48.7	51.9	53.3	55.1	57.9	60.1	62.0
77.5°	35.5	36.0	36.4	36.4	36.9	38.7	41.5	43.7	45.6	46.5	47.8
80°	28.7	28.2	28.2	28.7	28.7	28.7	29.6	32.8	33.7	36.0	35.5
82.5°	22.3	21.4	21.9	21.4	21.4	21.4	21.4	21.9	21.9	23.2	24.1
85°	14.6	15.0	14.6	14.6	14.1	14.6	14.1	14.1	13.7	13.7	13.2
87.5°	7.7	8.2	7.7	7.7	7.3	7.7	7.3	7.3	6.8	6.8	5.9
90°	20.8	20.1	19.4	18.7	18.0	15.8	13.7	11.5	9.4	8.3	7.5
92.5°	24.2	23.0	21.9	20.7	19.5	18.0	16.5	15.0	13.5	12.8	13.3
95°	28.0	26.8	25.7	24.5	23.3	21.5	19.6	17.8	15.9	15.0	18.4
97.5°	29.4	28.1	26.8	25.4	24.1	32.6	41.1	49.6	58.1	62.4	64.7
100°	30.1	28.8	27.5	26.1	24.8	50.9	76.9	103.0	129.1	142.1	140.4
102.5°	33.6	39.1	44.6	50.1	55.6	84.7	113.7	142.8	171.9	186.4	185.3
105°	46.4	75.9	105.5	135.0	164.6	179.6	194.7	209.7	224.8	232.3	231.4
107.5°	189.6	215.3	241.0	266.8	292.5	290.0	287.5	285.0	282.5	281.2	280.4
110°	317.1	322.6	328.1	333.6	339.1	337.3	335.4	333.6	331.7	330.8	330.1



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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	392.4	390.9	389.4	387.9	386.4	384.6	382.8	380.9	379.1	378.2	377.6
115°	438.3	436.6	434.9	433.2	431.5	430.0	428.5	427.0	425.5	424.8	424.3
117.5°	481.2	479.9	478.6	477.2	475.9	475.1	474.2	473.4	472.5	472.1	471.5
120°	524.1	522.8	521.4	520.1	518.7	518.2	517.7	517.2	516.7	516.5	515.7
122.5°	565.0	564.1	563.3	562.4	561.6	560.9	560.3	559.6	558.9	558.6	558.0
125°	602.8	602.5	602.1	601.8	601.4	600.7	600.1	599.4	598.7	598.4	597.7
127.5°	643.3	642.8	642.3	641.8	641.3	640.5	639.6	638.8	637.9	637.5	636.8
130°	679.3	678.6	677.9	677.3	676.6	675.9	675.3	674.6	673.9	673.6	672.9
132.5°	713.2	712.5	711.8	711.2	710.5	710.0	709.5	709.0	708.5	708.2	707.5
135°	747.0	746.5	746.0	745.5	745.0	744.3	743.7	743.0	742.3	742.0	741.5
137.5°	778.5	777.6	776.8	775.9	775.1	774.8	774.4	774.1	773.8	773.6	772.9
140°	807.1	806.4	805.7	805.1	804.4	803.9	803.4	802.9	802.4	802.2	801.7
142.5°	834.3	833.8	833.3	832.8	832.3	831.8	831.3	830.8	830.3	830.0	829.5
145°	859.1	858.8	858.5	858.1	857.8	857.5	857.1	856.8	856.5	856.3	855.7
147.5°	882.4	882.1	881.8	881.4	881.1	880.8	880.4	880.1	879.8	879.6	879.2
150°	903.5	903.2	902.9	902.5	902.2	901.9	901.5	901.2	900.9	900.7	900.4
152.5°	922.9	922.2	921.5	920.9	920.2	920.0	919.9	919.7	919.6	919.5	919.4
155°	940.1	939.3	938.4	937.6	936.8	936.6	936.4	936.3	936.1	936.0	936.2
157.5°	955.8	954.8	953.8	952.8	951.8	952.0	952.1	952.3	952.4	952.5	952.5
160°	968.6	967.6	966.6	965.6	964.6	964.8	964.9	965.1	965.2	965.3	965.4
162.5°	980.5	979.4	978.2	977.1	975.9	976.1	976.2	976.4	976.5	976.6	976.9
165°	990.9	989.6	988.3	986.9	985.6	985.8	986.0	986.1	986.3	986.4	986.6
167.5°	999.2	997.9	996.6	995.2	993.9	993.9	993.9	993.9	993.9	993.9	994.2
170°	1006.0	1004.7	1003.4	1002.0	1000.7	1000.7	1000.7	1000.7	1000.7	1000.7	1001.0
172.5°	1010.5	1009.2	1007.9	1006.5	1005.2	1005.0	1004.8	1004.7	1004.5	1004.4	1004.8
175°	1013.6	1012.4	1011.3	1010.1	1008.9	1008.7	1008.6	1008.4	1008.3	1008.2	1008.6
177.5°	1015.7	1014.4	1013.1	1011.7	1010.4	1010.2	1010.1	1009.9	1009.8	1009.7	1010.1
180°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9

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CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	532.1	532.1	532.1	532.1
2.5°	518.4	521.6	528.0	533.5
5°	507.5	512.5	522.1	531.7
7.5°	494.3	502.0	514.3	527.6
10°	481.5	491.6	506.6	522.1
12.5°	468.8	479.3	495.2	515.3
15°	453.8	464.7	483.8	508.0
17.5°	440.5	455.1	472.4	496.6
20°	426.4	437.4	459.7	485.2
22.5°	408.7	426.9	447.8	474.7
25°	394.5	410.5	431.4	462.0
27.5°	377.2	395.9	421.4	448.3
30°	363.1	378.6	402.3	434.6
32.5°	346.7	364.9	389.5	421.4
35°	332.1	347.6	370.8	403.2
37.5°	314.8	331.7	357.6	386.3
40°	299.8	316.2	340.8	367.7
42.5°	281.5	298.9	323.5	346.2
45°	267.0	282.9	302.5	323.5
47.5°	249.2	266.1	285.2	299.8
50°	233.3	248.7	263.8	276.1
52.5°	215.9	230.1	243.7	252.8
55°	200.0	210.9	221.9	228.2
57.5°	181.3	191.8	200.9	204.6
60°	164.9	173.6	179.5	183.6
62.5°	147.6	154.0	158.5	160.8
65°	130.8	135.3	137.6	139.9
67.5°	113.4	117.5	118.9	121.6
70°	95.2	99.8	100.7	102.0
72.5°	81.5	81.5	83.4	85.2
75°	65.1	66.1	67.0	67.0
77.5°	51.0	51.0	51.9	52.4
80°	37.4	37.8	37.8	37.4
82.5°	25.5	26.4	25.5	25.1
85°	14.1	15.9	15.0	15.0
87.5°	5.9	5.9	6.8	5.9
90°	5.8	4.1	2.5	0.8
92.5°	14.3	15.3	16.3	17.3
95°	25.3	32.2	39.0	45.9
97.5°	69.4	74.1	78.8	83.5
100°	137.1	133.8	130.4	127.1
102.5°	183.2	181.0	178.9	176.7
105°	229.5	227.7	225.8	224.0
107.5°	278.9	277.4	275.9	274.4
110°	328.8	327.5	326.1	324.8



TEST NUMBER: P1031157

CATALOG NUMBER: S123RDIW-B340D755UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	376.4	375.3	374.1	372.9
115°	423.3	422.3	421.3	420.3
117.5°	470.4	469.2	468.1	466.9
120°	514.2	512.7	511.2	509.7
122.5°	556.8	555.7	554.5	553.3
125°	596.4	595.1	593.7	592.4
127.5°	635.5	634.2	632.8	631.5
130°	671.6	670.3	668.9	667.6
132.5°	706.2	704.9	703.5	702.2
135°	740.5	739.5	738.5	737.5
137.5°	771.6	770.3	768.9	767.6
140°	800.7	799.7	798.7	797.7
142.5°	828.5	827.5	826.5	825.5
145°	854.6	853.4	852.3	851.1
147.5°	878.4	877.5	876.7	875.9
150°	899.9	899.4	898.9	898.4
152.5°	919.2	919.1	918.9	918.7
155°	936.5	936.8	937.2	937.5
157.5°	952.5	952.5	952.5	952.5
160°	965.6	965.7	965.9	966.1
162.5°	977.4	977.9	978.4	978.9
165°	987.1	987.6	988.1	988.6
167.5°	994.9	995.6	996.2	996.9
170°	1001.7	1002.4	1003.0	1003.7
172.5°	1005.7	1006.5	1007.4	1008.2
175°	1009.4	1010.3	1011.1	1011.9
177.5°	1010.9	1011.8	1012.6	1013.4
180°	1011.9	1011.9	1011.9	1011.9

(END OF REPORT)