

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: P1010589

Luminaire Tested: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010589
REPORT IS A COMBINATION OF REPORTS P989808 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

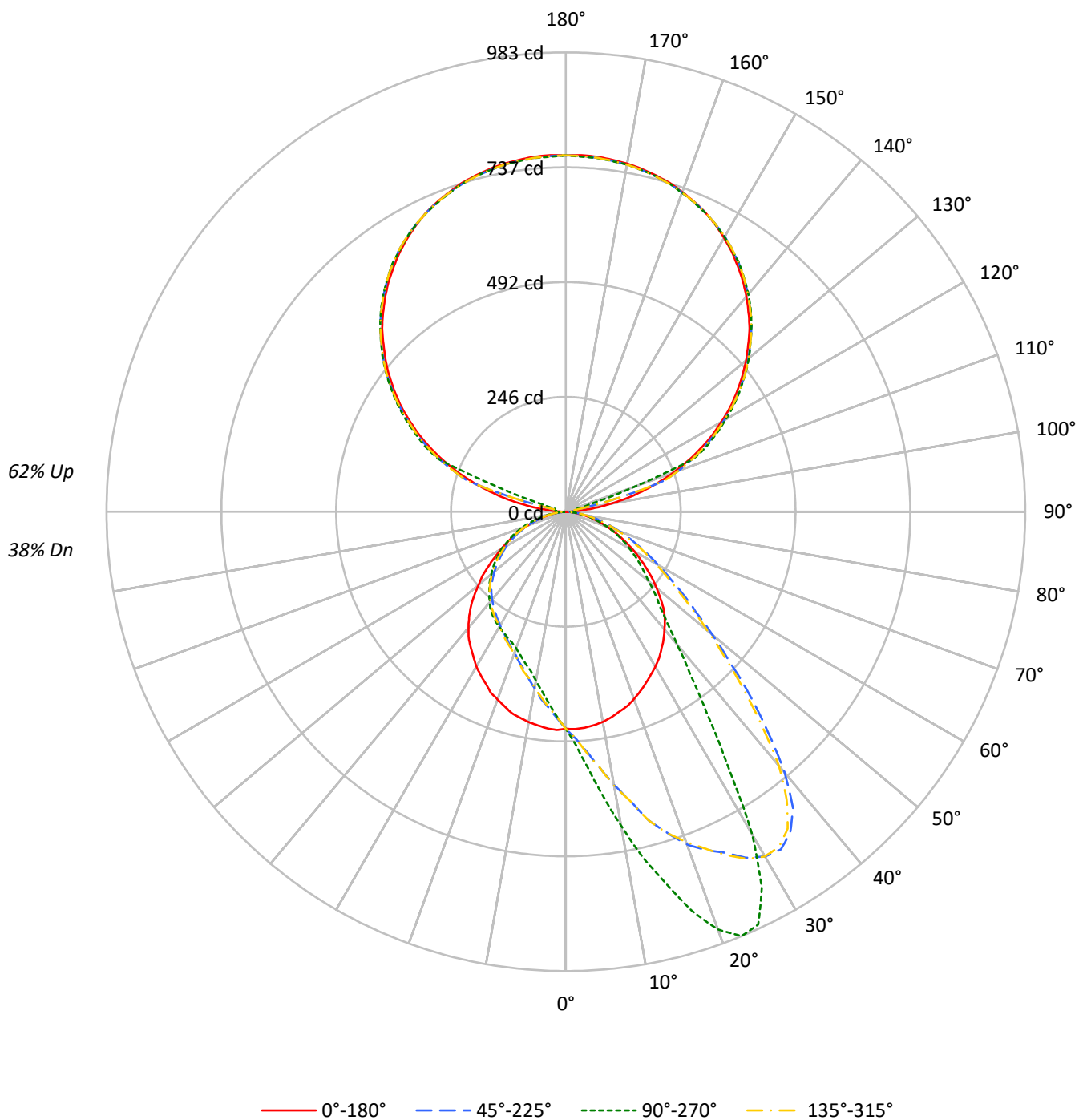
Lumens per Lamp: N/A
Luminaire Lumens: 3728.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38		
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32		
2	87	80	74	69	79	73	68	63	59	56	53	47	44	42	35	34	32	27		
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	28	23		
4	73	62	55	49	66	57	50	45	46	42	38	37	34	31	28	26	24	20		
5	67	55	47	42	60	51	44	39	42	37	33	33	30	27	25	23	21	18		
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	23	21	19	15		
7	57	45	37	32	51	41	34	29	34	29	25	27	24	21	21	18	16	14		
8	52	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15	12		
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11		
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4997	4997	4997	4997
5°	4999	5757	5014	4297
10°	4968	6966	4973	3752
15°	4899	8262	4939	3377
20°	4840	9512	4850	3108
25°	4752	9752	4763	2967
30°	4690	8057	4690	2875
35°	4612	5388	4583	2793
40°	4520	3889	4463	2669
45°	4402	3081	4276	2514
50°	4117	2616	3971	2362
55°	3807	2299	3651	2192
60°	3489	2002	3304	2013
65°	3143	1714	2990	1775
70°	2783	1423	2597	1498
75°	2377	1073	2225	1156
80°	1878	717	1732	759
85°	1297	328	1037	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 8059 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	1.2
10°-20°	146.6	3.9
20°-30°	246.7	6.6
30°-40°	278.8	7.5
40°-50°	249.7	6.7
50°-60°	201.6	5.4
60°-70°	140.5	3.8
70°-80°	73.7	2.0
80°-90°	19.2	0.5
90°-100°	26.9	0.7
100°-110°	130.0	3.5
110°-120°	318.7	8.5
120°-130°	404.6	10.9
130°-140°	432.2	11.6
140°-150°	404.2	10.8
150°-160°	326.0	8.7
160°-170°	210.4	5.6
170°-180°	72.5	1.9
0°-30°	439.0	11.8
0°-40°	717.8	19.3
0°-60°	1169.1	31.4
0°-90°	1402.5	37.6
90°-120°	475.6	12.8
90°-150°	1716.6	46.0
90°-180°	2325.0	62.4
0°-180°	3728.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	464	464	464	464	464	
5°	464	552	465	412	464	44
15°	443	821	446	336	443	125
25°	405	974	406	296	405	187
35°	357	525	355	272	357	224
45°	296	283	288	231	296	227
55°	210	192	202	184	210	188
65°	130	125	124	130	130	129
75°	62	64	58	69	62	67
85°	14	15	11	14	14	16
90°	1	17	1	17	1	3
95°	35	22	35	22	35	41
105°	169	25	169	25	169	179
115°	317	333	317	333	317	313
125°	447	456	447	456	447	399
135°	556	562	556	562	556	428
145°	642	648	642	648	642	402
155°	707	706	707	706	707	326
165°	745	744	745	744	745	211
175°	763	760	763	760	763	73
180°	763	763	763	763	763	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	465.5	469.1	470.9	473.6	476.3	480.4	481.7	484.0	483.1	484.9	485.8
5°	463.7	470.0	475.4	482.2	488.5	493.0	497.5	504.7	510.1	511.0	515.0
7.5°	460.6	469.6	479.0	488.5	500.6	507.8	515.9	525.8	533.9	547.0	551.9
10°	456.5	469.1	482.6	495.7	512.3	523.6	533.5	550.1	566.7	580.2	592.8
12.5°	450.2	466.0	483.5	502.9	524.5	537.5	551.0	573.0	598.2	618.9	632.4
15°	442.6	462.4	484.9	505.6	529.4	553.7	568.1	592.8	628.8	648.2	682.8
17.5°	436.3	456.5	479.0	511.4	543.8	568.1	578.4	623.9	648.6	681.0	720.1
20°	426.4	452.0	480.8	513.2	555.0	569.9	591.0	636.9	667.5	709.8	757.9
22.5°	416.1	443.5	478.1	511.9	558.6	574.4	603.2	639.6	688.2	730.0	783.1
25°	404.8	434.5	469.6	509.6	555.5	578.4	605.4	650.4	703.0	755.7	804.7
27.5°	393.6	426.0	462.4	502.4	547.0	573.9	600.9	647.7	715.2	772.3	834.8
30°	382.8	415.2	451.6	492.5	539.3	565.4	591.0	649.5	724.6	788.9	851.9
32.5°	371.1	404.4	442.6	476.8	524.0	551.9	580.7	649.5	730.5	798.8	856.4
35°	357.1	391.3	424.2	458.3	505.1	536.2	568.5	645.0	735.9	802.0	837.5
37.5°	343.6	373.8	402.1	435.4	484.4	517.7	555.0	639.6	733.2	788.5	798.4
40°	328.4	358.5	381.4	412.5	464.2	502.9	540.7	632.4	721.5	756.6	727.8
42.5°	313.5	337.3	357.1	387.3	443.5	481.3	522.2	619.4	698.5	705.7	641.0
45°	296.4	313.5	331.1	365.2	421.0	459.7	505.1	600.5	661.7	641.0	559.1
47.5°	274.4	289.7	309.0	340.5	397.2	437.2	480.4	576.2	608.1	564.9	475.4
50°	253.2	266.3	284.3	314.9	372.0	411.1	457.0	538.0	553.7	485.8	409.8
52.5°	232.1	242.0	259.5	290.1	347.2	385.0	426.9	498.8	489.8	417.0	349.5
55°	210.1	218.6	235.2	265.4	318.5	354.4	394.5	450.7	427.3	358.0	304.1
57.5°	188.5	197.5	214.6	239.7	289.7	324.8	356.7	400.8	365.7	310.4	262.7
60°	169.1	176.8	189.8	214.6	260.0	288.3	317.6	347.7	318.5	264.9	228.5
62.5°	148.9	156.1	168.2	190.7	229.8	255.0	278.4	303.2	270.8	231.6	199.3
65°	130.0	135.8	147.1	167.8	199.7	220.4	239.3	256.4	230.3	194.3	170.0
67.5°	112.9	117.8	127.3	145.7	172.7	187.6	202.9	217.3	195.2	166.4	145.7
70°	94.5	98.5	107.1	120.5	142.1	157.4	168.7	179.5	159.7	136.7	122.8
72.5°	78.3	82.3	87.7	101.7	116.5	125.9	138.1	143.9	132.7	113.8	99.9
75°	62.5	65.7	70.6	79.6	93.6	99.9	107.5	112.0	101.7	89.1	80.5
77.5°	49.0	50.4	54.0	60.3	69.7	76.9	82.8	85.5	78.3	70.2	63.0
80°	34.6	36.4	39.1	44.5	51.7	54.0	57.6	60.7	56.2	49.0	44.5
82.5°	22.9	25.2	26.5	28.8	33.3	36.0	36.9	39.6	35.5	32.8	31.0
85°	13.5	14.4	14.8	16.2	18.4	19.8	21.1	21.6	20.7	20.2	18.4
87.5°	6.7	6.7	6.7	7.6	8.1	9.0	9.4	9.4	9.4	9.0	8.5
90°	0.6	1.8	3.1	4.3	5.6	6.2	7.0	8.7	10.3	12.0	13.6
92.5°	13.0	12.2	11.5	10.7	10.0	9.6	10.2	11.3	12.4	13.6	14.7
95°	34.6	29.4	24.2	19.1	13.9	11.3	12.0	13.4	14.8	16.2	17.6
97.5°	62.9	59.4	55.8	52.3	48.8	47.0	43.8	37.4	30.9	24.5	18.1
100°	95.8	98.3	100.8	103.3	105.8	107.1	97.3	77.6	58.0	38.3	18.7
102.5°	133.2	134.8	136.4	138.1	139.7	140.5	129.5	107.6	85.7	63.8	41.9
105°	168.9	170.3	171.7	173.0	174.4	175.1	169.4	158.1	146.8	135.4	124.1
107.5°	206.9	208.0	209.2	210.3	211.4	212.0	212.9	214.8	216.7	218.6	220.5
110°	244.8	245.8	246.8	247.9	248.9	249.4	250.1	251.5	252.8	254.2	255.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.1	282.0	282.9	283.8	284.7	285.1	285.8	287.2	288.5	289.9	291.3
115°	316.8	317.6	318.3	319.1	319.8	320.2	320.8	321.9	323.0	324.2	325.3
117.5°	351.9	352.8	353.7	354.6	355.5	355.9	356.2	356.8	357.5	358.1	358.7
120°	384.2	385.3	386.5	387.6	388.7	389.3	389.5	389.9	390.2	390.6	391.0
122.5°	417.1	418.0	418.9	419.8	420.7	421.1	421.3	421.8	422.3	422.8	423.3
125°	446.6	447.6	448.6	449.6	450.6	451.1	451.4	451.9	452.4	452.9	453.4
127.5°	476.0	477.0	478.0	479.1	480.1	480.6	480.9	481.5	482.2	482.8	483.4
130°	503.2	504.2	505.2	506.3	507.3	507.8	508.0	508.5	509.0	509.5	510.0
132.5°	529.3	530.3	531.3	532.4	533.4	533.9	534.1	534.5	534.8	535.2	535.6
135°	556.0	556.8	557.5	558.3	559.0	559.4	559.6	560.1	560.6	561.1	561.6
137.5°	578.6	579.6	580.6	581.7	582.7	583.2	583.3	583.6	583.8	584.1	584.3
140°	601.3	602.1	602.8	603.6	604.3	604.7	604.9	605.3	605.6	606.0	606.4
142.5°	622.3	623.1	623.8	624.6	625.3	625.7	625.9	626.3	626.6	627.0	627.4
145°	641.5	642.4	643.3	644.2	645.1	645.5	645.6	645.9	646.1	646.4	646.6
147.5°	660.2	660.8	661.5	662.1	662.8	663.1	663.2	663.5	663.7	664.0	664.2
150°	677.2	677.6	678.0	678.3	678.7	678.9	679.0	679.3	679.6	679.8	680.1
152.5°	692.5	692.6	692.8	692.9	693.0	693.1	693.2	693.3	693.4	693.6	693.7
155°	706.7	706.5	706.2	706.0	705.7	705.6	705.7	705.8	705.9	706.0	706.1
157.5°	718.0	718.0	718.0	718.0	718.0	718.0	717.9	717.8	717.7	717.6	717.5
160°	728.2	728.1	728.0	727.9	727.8	727.7	727.6	727.5	727.4	727.2	727.1
162.5°	737.9	737.5	737.1	736.8	736.4	736.2	736.1	736.0	735.9	735.7	735.6
165°	745.2	744.8	744.4	744.1	743.7	743.5	743.4	743.3	743.2	743.1	743.0
167.5°	751.5	751.0	750.5	750.0	749.5	749.2	749.2	749.2	749.2	749.2	749.2
170°	756.6	756.1	755.6	755.1	754.6	754.3	754.3	754.3	754.3	754.3	754.3
172.5°	760.0	759.4	758.7	758.1	757.4	757.1	757.2	757.3	757.4	757.6	757.7
175°	762.8	762.2	761.6	760.9	760.3	760.0	760.1	760.2	760.3	760.4	760.5
177.5°	763.9	763.3	762.7	762.0	761.4	761.1	761.2	761.3	761.4	761.6	761.7
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	488.9	489.8	493.0	495.2	499.7	499.3	499.3	498.8	497.5	499.7	501.1
5°	523.1	530.8	531.7	541.6	542.0	546.1	548.8	546.5	551.9	551.5	547.4
7.5°	565.4	575.7	580.7	590.1	600.9	598.2	608.6	610.4	609.5	614.0	617.1
10°	611.7	629.7	642.3	659.9	664.3	667.0	673.8	679.6	691.3	682.3	688.2
12.5°	664.8	677.8	694.5	722.4	736.3	745.3	748.5	752.5	760.6	755.7	756.1
15°	709.3	726.9	755.2	789.8	793.9	805.1	802.4	826.7	838.4	820.9	830.8
17.5°	755.7	779.0	812.8	842.9	860.0	867.7	874.9	898.2	897.3	894.6	896.9
20°	785.3	823.6	865.4	905.4	910.4	916.2	935.6	945.5	943.7	951.3	956.3
22.5°	827.2	867.7	912.2	938.7	950.0	956.7	972.0	978.3	981.0	982.8	979.7
25°	862.3	905.4	938.3	961.7	968.4	972.0	977.0	978.8	977.4	974.3	977.0
27.5°	886.1	920.7	943.2	954.0	950.4	944.6	935.1	928.8	914.9	908.1	916.2
30°	896.0	911.3	918.0	900.0	882.1	867.7	849.7	816.4	790.3	797.9	787.6
32.5°	880.3	870.4	838.0	791.6	777.7	754.3	703.5	664.3	665.7	645.0	653.6
35°	833.9	788.9	727.8	657.6	639.2	626.6	570.8	562.2	544.3	524.9	530.3
37.5°	752.1	686.4	612.2	560.4	533.0	505.6	474.1	455.2	444.4	436.3	442.6
40°	652.2	572.1	511.0	464.6	441.3	423.7	402.1	383.2	371.1	369.7	372.0
42.5°	554.1	486.7	430.5	386.4	378.7	358.0	344.1	329.3	325.7	319.8	323.0
45°	469.1	414.3	367.9	331.9	323.0	317.6	300.5	291.0	287.0	283.4	288.8
47.5°	407.5	349.9	316.2	294.6	285.6	276.6	267.2	260.9	257.7	258.2	257.7
50°	348.1	305.9	276.2	259.5	254.1	247.8	240.2	236.1	234.8	230.7	233.9
52.5°	299.6	269.0	248.3	232.5	228.5	224.0	217.7	215.5	212.3	211.4	211.4
55°	260.4	236.6	220.0	209.6	204.7	201.1	197.5	194.8	192.5	192.5	192.5
57.5°	229.8	209.2	197.0	188.0	186.2	182.6	178.6	178.6	175.4	175.0	176.3
60°	203.8	185.3	175.9	168.2	165.5	164.6	160.6	160.6	159.7	157.4	159.2
62.5°	177.2	163.7	155.6	149.8	147.1	147.1	143.9	141.7	141.7	142.1	141.2
65°	152.9	143.0	135.8	131.3	130.0	128.2	127.7	125.9	124.6	125.0	124.6
67.5°	131.3	123.7	118.7	115.1	112.9	112.0	110.6	110.6	109.8	110.2	108.0
70°	112.0	104.4	100.3	96.7	95.8	95.8	94.0	94.5	93.6	94.9	94.0
72.5°	92.2	86.4	83.2	81.9	81.0	80.5	79.6	78.7	78.3	79.2	78.7
75°	74.7	69.7	67.5	66.6	65.7	65.7	65.2	64.8	64.3	64.3	64.3
77.5°	58.0	54.9	52.2	53.1	51.7	52.2	50.8	50.8	51.3	50.8	50.8
80°	42.7	40.5	40.5	39.6	37.8	38.7	38.7	37.3	36.9	37.8	36.4
82.5°	28.3	27.9	27.0	26.5	25.6	26.1	25.6	25.2	24.7	25.6	24.7
85°	16.6	16.6	16.2	15.3	16.2	15.7	15.3	15.3	14.8	14.8	14.8
87.5°	8.5	7.6	7.6	7.2	7.6	6.7	7.2	6.7	6.3	6.7	6.3
90°	14.1	14.6	15.1	15.6	15.9	16.0	16.3	16.5	16.8	17.0	16.8
92.5°	15.6	16.5	17.4	18.3	18.7	18.8	18.9	19.0	19.2	19.3	19.2
95°	18.5	19.3	20.2	21.1	21.5	21.5	21.5	21.5	21.5	21.5	21.5
97.5°	19.1	20.1	21.2	22.2	22.7	22.8	22.9	23.0	23.1	23.2	23.1
100°	19.7	20.7	21.7	22.7	23.2	23.3	23.4	23.5	23.7	23.8	23.7
102.5°	37.7	33.6	29.4	25.3	23.2	23.3	23.6	23.9	24.1	24.4	24.1
105°	101.8	79.5	57.2	34.9	23.8	23.9	24.2	24.4	24.7	24.9	24.7
107.5°	201.1	181.7	162.3	142.9	133.2	124.9	108.4	91.9	75.4	58.9	75.4
110°	251.4	247.3	243.1	239.0	236.9	227.9	209.9	191.8	173.8	155.8	173.8

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	292.4	293.6	294.7	295.8	296.4	296.3	296.0	295.8	295.5	295.3	295.5
115°	326.6	327.8	329.1	330.4	331.0	331.2	331.7	332.2	332.7	333.2	332.7
117.5°	359.7	360.7	361.8	362.8	363.3	363.4	363.5	363.6	363.7	363.8	363.7
120°	392.0	393.0	394.1	395.1	395.6	395.6	395.6	395.6	395.6	395.6	395.6
122.5°	423.9	424.6	425.2	425.9	426.2	426.3	426.4	426.5	426.6	426.7	426.6
125°	453.6	453.9	454.1	454.4	454.5	454.6	454.9	455.1	455.4	455.6	455.4
127.5°	483.8	484.2	484.5	484.9	485.1	485.0	484.7	484.5	484.2	484.0	484.2
130°	510.5	511.0	511.5	512.0	512.3	512.2	511.9	511.7	511.4	511.2	511.4
132.5°	536.1	536.6	537.1	537.6	537.8	537.6	537.2	536.9	536.5	536.1	536.5
135°	562.0	562.4	562.7	563.1	563.3	563.1	562.7	562.4	562.0	561.6	562.0
137.5°	584.9	585.5	586.2	586.8	587.1	587.0	586.7	586.5	586.2	586.0	586.2
140°	606.9	607.4	607.9	608.4	608.7	608.6	608.3	608.0	607.8	607.5	607.8
142.5°	627.8	628.2	628.5	628.9	629.1	628.9	628.5	628.2	627.8	627.4	627.8
145°	646.9	647.1	647.4	647.7	647.8	647.8	647.8	647.8	647.8	647.8	647.8
147.5°	664.4	664.7	664.9	665.2	665.3	665.0	664.4	663.7	663.1	662.5	663.1
150°	680.3	680.6	680.8	681.1	681.2	681.0	680.6	680.3	679.9	679.5	679.9
152.5°	694.2	694.7	695.2	695.7	695.9	695.6	695.0	694.3	693.7	693.1	693.7
155°	706.7	707.4	708.0	708.7	709.0	708.6	707.9	707.1	706.4	705.6	706.4
157.5°	718.3	719.0	719.8	720.5	720.9	720.4	719.4	718.3	717.3	716.3	717.3
160°	727.9	728.6	729.4	730.1	730.5	730.1	729.2	728.3	727.4	726.5	727.4
162.5°	736.5	737.4	738.3	739.2	739.6	739.2	738.5	737.7	737.0	736.2	737.0
165°	744.0	745.0	746.0	747.0	747.5	747.1	746.2	745.3	744.4	743.5	744.4
167.5°	750.2	751.2	752.2	753.2	753.7	753.2	752.2	751.2	750.2	749.2	750.2
170°	755.3	756.3	757.3	758.3	758.8	758.3	757.3	756.3	755.3	754.3	755.3
172.5°	758.7	759.7	760.7	761.7	762.2	761.6	760.5	759.4	758.2	757.1	758.2
175°	761.4	762.3	763.2	764.1	764.5	764.0	763.0	762.0	761.0	760.0	761.0
177.5°	762.7	763.7	764.7	765.7	766.2	765.6	764.3	763.0	761.8	760.5	761.8
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	497.5	498.8	495.2	494.3	494.3	496.1	494.8	482.6	484.9	482.2	481.3
5°	552.4	549.7	546.1	544.3	542.0	535.7	535.3	521.3	518.6	509.6	505.6
7.5°	612.6	610.4	599.6	598.2	597.3	591.5	576.6	561.8	551.0	540.7	530.8
10°	681.4	674.7	669.7	659.9	654.9	646.8	627.5	613.5	595.1	579.3	558.6
12.5°	764.2	756.6	739.9	732.7	726.4	703.9	684.6	668.8	632.9	622.1	596.4
15°	824.9	808.7	806.9	791.2	790.3	765.6	728.7	711.6	683.7	644.1	617.6
17.5°	890.6	876.2	865.0	846.1	843.4	820.0	793.0	751.2	720.6	682.8	649.1
20°	938.7	931.1	911.7	904.1	888.3	868.6	840.7	788.9	751.6	713.8	672.4
22.5°	977.0	969.3	954.0	943.7	934.7	909.0	875.8	831.7	780.4	730.9	688.2
25°	976.5	974.3	968.0	963.0	956.3	937.4	909.5	867.2	810.1	755.7	696.3
27.5°	921.2	927.5	938.3	943.7	942.3	939.6	923.9	888.3	837.1	772.3	705.7
30°	806.0	829.0	849.2	876.2	884.3	904.1	913.1	892.8	851.9	791.6	717.9
32.5°	668.4	701.7	745.8	760.6	786.2	824.5	867.2	874.9	849.2	802.9	725.5
35°	548.3	575.7	609.9	633.3	656.3	718.3	772.3	819.1	827.6	797.0	723.7
37.5°	453.8	473.2	503.3	523.1	544.3	597.3	672.9	733.6	776.3	777.2	718.8
40°	385.5	394.0	420.1	434.5	454.7	500.6	568.1	647.3	709.8	738.6	705.7
42.5°	326.6	337.8	359.4	370.2	383.2	423.3	467.8	542.9	620.3	681.9	681.4
45°	291.5	299.6	309.5	318.5	333.3	357.1	408.0	464.2	538.4	608.1	635.6
47.5°	260.4	268.1	278.0	280.7	290.6	313.1	344.1	393.1	462.4	531.7	583.4
50°	234.3	240.6	247.4	252.3	256.8	275.3	298.7	340.0	395.4	462.4	526.7
52.5°	214.1	218.6	224.4	227.1	231.2	244.7	262.7	293.3	338.7	399.9	462.4
55°	195.2	198.4	202.0	206.5	208.3	218.2	232.1	258.2	291.9	346.8	406.2
57.5°	177.7	179.0	181.3	184.0	186.2	194.8	206.9	224.4	254.1	296.4	352.6
60°	157.9	161.5	162.8	165.5	166.9	173.6	183.1	197.9	220.9	257.3	299.6
62.5°	141.2	143.5	145.7	147.1	150.2	152.5	160.1	173.6	192.5	219.5	257.7
65°	126.4	127.3	128.6	130.0	130.9	133.6	140.8	149.8	164.2	188.0	217.7
67.5°	109.3	110.2	112.0	112.4	113.3	116.9	121.0	128.6	140.8	158.8	183.1
70°	92.7	94.0	94.9	95.8	97.2	98.5	103.0	109.3	118.7	131.3	150.2
72.5°	78.3	79.6	79.6	80.5	80.1	81.9	86.4	90.9	97.2	107.5	124.1
75°	63.9	63.9	64.8	65.2	65.7	67.5	69.3	72.9	77.8	85.9	96.3
77.5°	50.4	49.9	50.8	50.8	50.8	52.2	54.0	55.8	58.9	64.8	72.9
80°	36.9	36.9	37.8	38.2	37.3	37.8	38.7	40.5	42.7	46.8	51.3
82.5°	24.3	26.1	25.6	26.1	25.6	26.5	27.0	27.4	28.3	30.1	33.3
85°	14.8	14.8	14.8	15.3	14.8	15.3	15.3	15.3	15.7	16.6	18.0
87.5°	6.3	6.3	6.3	6.7	6.3	6.3	6.7	6.3	6.7	6.7	7.2
90°	16.5	16.3	16.0	15.9	15.6	15.1	14.6	14.1	13.6	12.0	10.3
92.5°	19.0	18.9	18.8	18.7	18.3	17.4	16.5	15.6	14.7	13.6	12.4
95°	21.5	21.5	21.5	21.5	21.1	20.2	19.3	18.5	17.6	16.2	14.8
97.5°	23.0	22.9	22.8	22.7	22.2	21.2	20.1	19.1	18.1	24.5	30.9
100°	23.5	23.4	23.3	23.2	22.7	21.7	20.7	19.7	18.7	38.3	58.0
102.5°	23.9	23.6	23.3	23.2	25.3	29.4	33.6	37.7	41.9	63.8	85.7
105°	24.4	24.2	23.9	23.8	34.9	57.2	79.5	101.8	124.1	135.4	146.8
107.5°	91.9	108.4	124.9	133.2	142.9	162.3	181.7	201.1	220.5	218.6	216.7
110°	191.8	209.9	227.9	236.9	239.0	243.1	247.3	251.4	255.6	254.2	252.8

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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	295.8	296.0	296.3	296.4	295.8	294.7	293.6	292.4	291.3	289.9	288.5
115°	332.2	331.7	331.2	331.0	330.4	329.1	327.8	326.6	325.3	324.2	323.0
117.5°	363.6	363.5	363.4	363.3	362.8	361.8	360.7	359.7	358.7	358.1	357.5
120°	395.6	395.6	395.6	395.6	395.1	394.1	393.0	392.0	391.0	390.6	390.2
122.5°	426.5	426.4	426.3	426.2	425.9	425.2	424.6	423.9	423.3	422.8	422.3
125°	455.1	454.9	454.6	454.5	454.4	454.1	453.9	453.6	453.4	452.9	452.4
127.5°	484.5	484.7	485.0	485.1	484.9	484.5	484.2	483.8	483.4	482.8	482.2
130°	511.7	511.9	512.2	512.3	512.0	511.5	511.0	510.5	510.0	509.5	509.0
132.5°	536.9	537.2	537.6	537.8	537.6	537.1	536.6	536.1	535.6	535.2	534.8
135°	562.4	562.7	563.1	563.3	563.1	562.7	562.4	562.0	561.6	561.1	560.6
137.5°	586.5	586.7	587.0	587.1	586.8	586.2	585.5	584.9	584.3	584.1	583.8
140°	608.0	608.3	608.6	608.7	608.4	607.9	607.4	606.9	606.4	606.0	605.6
142.5°	628.2	628.5	628.9	629.1	628.9	628.5	628.2	627.8	627.4	627.0	626.6
145°	647.8	647.8	647.8	647.8	647.7	647.4	647.1	646.9	646.6	646.4	646.1
147.5°	663.7	664.4	665.0	665.3	665.2	664.9	664.7	664.4	664.2	664.0	663.7
150°	680.3	680.6	681.0	681.2	681.1	680.8	680.6	680.3	680.1	679.8	679.6
152.5°	694.3	695.0	695.6	695.9	695.7	695.2	694.7	694.2	693.7	693.6	693.4
155°	707.1	707.9	708.6	709.0	708.7	708.0	707.4	706.7	706.1	706.0	705.9
157.5°	718.3	719.4	720.4	720.9	720.5	719.8	719.0	718.3	717.5	717.6	717.7
160°	728.3	729.2	730.1	730.5	730.1	729.4	728.6	727.9	727.1	727.2	727.4
162.5°	737.7	738.5	739.2	739.6	739.2	738.3	737.4	736.5	735.6	735.7	735.9
165°	745.3	746.2	747.1	747.5	747.0	746.0	745.0	744.0	743.0	743.1	743.2
167.5°	751.2	752.2	753.2	753.7	753.2	752.2	751.2	750.2	749.2	749.2	749.2
170°	756.3	757.3	758.3	758.8	758.3	757.3	756.3	755.3	754.3	754.3	754.3
172.5°	759.4	760.5	761.6	762.2	761.7	760.7	759.7	758.7	757.7	757.6	757.4
175°	762.0	763.0	764.0	764.5	764.1	763.2	762.3	761.4	760.5	760.4	760.3
177.5°	763.0	764.3	765.6	766.2	765.7	764.7	763.7	762.7	761.7	761.6	761.4
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010589

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	476.8	475.4	475.4	474.5	471.8	466.9	466.4	467.3	464.6	461.9	457.9
5°	500.2	491.6	488.9	486.2	480.8	471.8	468.2	465.1	460.1	454.3	448.0
7.5°	520.0	507.8	504.2	499.3	488.5	475.9	467.8	461.0	454.3	446.2	438.6
10°	544.7	527.2	518.6	511.4	496.6	479.0	466.9	457.0	446.2	436.3	426.4
12.5°	572.6	544.3	541.6	524.0	506.9	480.8	466.0	451.6	437.2	425.1	414.7
15°	596.0	564.9	553.7	542.0	509.2	476.8	462.4	446.2	429.6	416.5	401.2
17.5°	610.8	585.2	561.3	545.6	511.4	482.6	454.7	436.3	418.8	400.8	388.2
20°	628.8	591.5	570.8	549.7	515.9	478.1	450.2	427.3	405.7	389.5	374.2
22.5°	646.8	596.4	579.3	556.4	516.8	473.6	442.1	419.2	394.5	378.3	361.6
25°	645.0	603.6	575.3	555.9	507.8	469.6	432.7	405.7	382.8	362.1	345.4
27.5°	646.4	595.5	566.7	544.3	501.5	463.7	422.8	394.5	370.6	349.0	331.5
30°	646.8	583.4	558.2	531.2	489.8	449.8	411.6	382.8	357.6	334.2	318.5
32.5°	645.5	573.5	542.0	517.7	471.4	436.3	398.5	367.9	342.3	320.7	305.9
35°	642.3	561.8	525.4	494.8	452.5	417.0	386.4	354.9	327.5	307.7	290.6
37.5°	633.8	549.2	507.8	477.7	430.5	394.5	367.5	341.4	314.9	291.5	277.1
40°	627.5	532.1	490.3	457.4	406.6	371.5	349.0	324.3	298.2	277.1	263.1
42.5°	613.1	515.9	472.3	433.2	383.2	347.2	326.1	306.3	283.8	263.1	250.5
45°	589.7	498.4	450.2	410.7	357.6	323.4	304.1	287.9	268.1	248.3	235.7
47.5°	556.8	473.2	426.9	387.3	332.4	297.8	278.4	266.3	250.5	233.9	223.1
50°	521.3	445.7	403.0	363.9	308.1	274.4	255.5	244.2	233.9	218.6	208.3
52.5°	475.0	416.5	375.6	338.2	282.0	249.6	233.0	224.9	214.1	203.3	194.3
55°	430.0	378.7	345.0	309.5	256.4	226.2	210.1	201.5	195.2	186.2	179.0
57.5°	377.8	343.6	312.6	280.2	232.5	205.1	189.8	179.5	175.4	171.4	164.6
60°	329.7	303.6	278.4	251.4	207.8	183.1	168.2	160.1	156.1	153.4	148.9
62.5°	285.6	265.4	243.8	222.2	182.6	160.1	148.9	140.8	137.2	136.7	132.7
65°	243.3	228.9	211.4	190.3	159.2	139.4	128.6	123.7	119.6	119.6	116.5
67.5°	201.1	191.2	177.2	162.4	138.1	119.6	109.8	105.3	103.0	103.0	100.8
70°	167.3	160.6	148.0	134.9	113.8	99.9	92.2	88.2	86.8	87.3	85.5
72.5°	135.8	128.6	118.3	108.9	93.1	82.8	77.4	72.9	70.6	71.1	70.6
75°	105.3	101.7	92.7	85.5	72.9	65.7	60.7	58.5	56.7	57.1	56.2
77.5°	79.2	73.8	68.8	63.9	56.2	50.4	46.3	44.1	42.7	42.7	42.7
80°	54.0	53.1	49.0	46.3	40.0	35.5	32.4	31.9	30.6	30.6	30.6
82.5°	35.1	32.8	30.6	28.8	25.2	22.5	21.1	20.2	19.8	19.3	20.2
85°	19.3	18.0	17.1	15.3	13.9	12.6	11.2	10.8	10.3	10.8	10.3
87.5°	7.6	6.3	6.3	5.8	5.4	4.9	4.9	4.0	4.0	3.6	3.6
90°	8.7	7.0	6.2	5.6	4.3	3.1	1.8	0.6	1.8	3.1	4.3
92.5°	11.3	10.2	9.6	10.0	10.7	11.5	12.2	13.0	12.2	11.5	10.7
95°	13.4	12.0	11.3	13.9	19.1	24.2	29.4	34.6	29.4	24.2	19.1
97.5°	37.4	43.8	47.0	48.8	52.3	55.8	59.4	62.9	59.4	55.8	52.3
100°	77.6	97.3	107.1	105.8	103.3	100.8	98.3	95.8	98.3	100.8	103.3
102.5°	107.6	129.5	140.5	139.7	138.1	136.4	134.8	133.2	134.8	136.4	138.1
105°	158.1	169.4	175.1	174.4	173.0	171.7	170.3	168.9	170.3	171.7	173.0
107.5°	214.8	212.9	212.0	211.4	210.3	209.2	208.0	206.9	208.0	209.2	210.3
110°	251.5	250.1	249.4	248.9	247.9	246.8	245.8	244.8	245.8	246.8	247.9

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	287.2	285.8	285.1	284.7	283.8	282.9	282.0	281.1	282.0	282.9	283.8
115°	321.9	320.8	320.2	319.8	319.1	318.3	317.6	316.8	317.6	318.3	319.1
117.5°	356.8	356.2	355.9	355.5	354.6	353.7	352.8	351.9	352.8	353.7	354.6
120°	389.9	389.5	389.3	388.7	387.6	386.5	385.3	384.2	385.3	386.5	387.6
122.5°	421.8	421.3	421.1	420.7	419.8	418.9	418.0	417.1	418.0	418.9	419.8
125°	451.9	451.4	451.1	450.6	449.6	448.6	447.6	446.6	447.6	448.6	449.6
127.5°	481.5	480.9	480.6	480.1	479.1	478.0	477.0	476.0	477.0	478.0	479.1
130°	508.5	508.0	507.8	507.3	506.3	505.2	504.2	503.2	504.2	505.2	506.3
132.5°	534.5	534.1	533.9	533.4	532.4	531.3	530.3	529.3	530.3	531.3	532.4
135°	560.1	559.6	559.4	559.0	558.3	557.5	556.8	556.0	556.8	557.5	558.3
137.5°	583.6	583.3	583.2	582.7	581.7	580.6	579.6	578.6	579.6	580.6	581.7
140°	605.3	604.9	604.7	604.3	603.6	602.8	602.1	601.3	602.1	602.8	603.6
142.5°	626.3	625.9	625.7	625.3	624.6	623.8	623.1	622.3	623.1	623.8	624.6
145°	645.9	645.6	645.5	645.1	644.2	643.3	642.4	641.5	642.4	643.3	644.2
147.5°	663.5	663.2	663.1	662.8	662.1	661.5	660.8	660.2	660.8	661.5	662.1
150°	679.3	679.0	678.9	678.7	678.3	678.0	677.6	677.2	677.6	678.0	678.3
152.5°	693.3	693.2	693.1	693.0	692.9	692.8	692.6	692.5	692.6	692.8	692.9
155°	705.8	705.7	705.6	705.7	706.0	706.2	706.5	706.7	706.5	706.2	706.0
157.5°	717.8	717.9	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0	718.0
160°	727.5	727.6	727.7	727.8	727.9	728.0	728.1	728.2	728.1	728.0	727.9
162.5°	736.0	736.1	736.2	736.4	736.8	737.1	737.5	737.9	737.5	737.1	736.8
165°	743.3	743.4	743.5	743.7	744.1	744.4	744.8	745.2	744.8	744.4	744.1
167.5°	749.2	749.2	749.2	749.5	750.0	750.5	751.0	751.5	751.0	750.5	750.0
170°	754.3	754.3	754.3	754.6	755.1	755.6	756.1	756.6	756.1	755.6	755.1
172.5°	757.3	757.2	757.1	757.4	758.1	758.7	759.4	760.0	759.4	758.7	758.1
175°	760.2	760.1	760.0	760.3	760.9	761.6	762.2	762.8	762.2	761.6	760.9
177.5°	761.3	761.2	761.1	761.4	762.0	762.7	763.3	763.9	763.3	762.7	762.0
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	457.0	456.5	457.4	454.7	450.2	448.0	441.7	440.4	439.9	440.4	440.8
5°	444.4	443.9	442.6	438.1	432.7	428.7	421.0	420.6	417.9	415.2	416.5
7.5°	432.3	430.5	427.8	421.9	414.7	410.2	403.9	399.4	395.8	393.6	391.8
10°	420.1	417.4	414.7	407.1	398.1	391.3	383.7	380.1	376.0	374.2	372.4
12.5°	404.4	401.7	396.7	387.7	382.3	373.8	366.1	362.5	360.3	356.7	354.4
15°	391.8	386.4	383.7	374.2	363.0	362.1	348.1	347.2	342.7	342.7	339.1
17.5°	377.4	373.3	368.4	358.9	350.8	342.7	335.5	332.8	328.8	327.9	326.1
20°	363.4	358.0	356.2	346.8	338.2	328.4	320.7	318.0	316.2	314.4	315.8
22.5°	349.0	344.5	340.0	331.5	325.2	315.3	310.8	308.1	305.4	304.5	305.0
25°	335.1	331.1	326.6	318.0	311.3	303.2	299.1	297.8	296.4	296.4	296.0
27.5°	321.6	317.6	313.5	305.9	299.1	293.3	290.1	288.8	287.4	288.3	289.2
30°	307.7	304.1	300.5	293.7	288.3	282.9	281.1	280.2	279.8	282.0	282.0
32.5°	295.1	291.9	289.2	282.9	277.5	273.0	271.7	272.1	272.6	273.9	274.8
35°	282.0	279.8	277.1	271.7	267.2	263.1	263.6	263.6	264.5	266.7	268.5
37.5°	270.3	267.2	264.9	260.4	256.8	253.2	254.6	255.9	256.8	259.5	260.4
40°	256.4	255.0	253.2	248.7	245.6	245.1	245.6	246.5	248.3	249.6	251.0
42.5°	245.1	243.3	241.1	237.5	234.8	235.2	235.7	236.6	237.5	239.7	241.1
45°	232.5	231.2	229.4	226.2	224.0	224.4	224.9	224.9	225.8	228.5	229.4
47.5°	218.6	219.1	216.8	213.7	212.3	212.3	212.3	213.2	215.5	216.4	216.8
50°	205.1	204.2	203.8	200.6	199.7	199.3	199.7	200.2	203.3	202.9	204.2
52.5°	190.7	190.7	190.3	188.5	187.1	187.1	186.2	188.5	189.4	190.3	191.6
55°	176.8	175.4	175.0	174.1	172.3	171.8	172.7	175.4	176.3	177.2	178.6
57.5°	161.5	161.5	160.6	159.2	159.2	159.2	159.2	161.0	162.4	163.3	166.0
60°	147.5	145.7	144.4	144.4	144.4	143.9	146.6	146.6	149.3	149.8	150.7
62.5°	130.9	130.0	129.1	129.5	129.1	130.0	130.9	132.7	133.1	134.5	135.8
65°	115.1	115.1	114.2	116.9	115.1	115.1	117.4	117.4	118.3	119.6	121.4
67.5°	99.9	100.3	99.4	99.4	100.3	100.8	101.2	103.0	103.5	105.3	107.5
70°	84.1	85.0	85.5	84.6	85.5	86.4	87.3	87.7	89.5	90.4	91.8
72.5°	70.2	71.1	69.7	70.2	70.6	71.5	72.0	72.9	73.8	76.5	77.4
75°	56.2	55.8	55.3	57.1	56.2	58.0	58.5	58.5	59.4	61.6	62.5
77.5°	43.2	43.2	43.6	42.7	44.1	43.6	44.1	45.4	46.8	46.8	50.4
80°	30.1	31.0	31.0	31.0	31.5	31.9	31.0	33.3	33.7	33.7	35.1
82.5°	19.3	19.8	19.3	20.2	20.2	21.1	20.7	21.1	22.0	22.9	23.4
85°	10.3	10.3	11.2	11.2	10.8	11.2	10.8	11.2	12.1	12.1	12.6
87.5°	3.6	3.6	3.6	3.6	4.0	3.6	4.0	4.0	3.6	3.6	4.9
90°	5.6	6.2	7.0	8.7	10.3	12.0	13.6	14.1	14.6	15.1	15.6
92.5°	10.0	9.6	10.2	11.3	12.4	13.6	14.7	15.6	16.5	17.4	18.3
95°	13.9	11.3	12.0	13.4	14.8	16.2	17.6	18.5	19.3	20.2	21.1
97.5°	48.8	47.0	43.8	37.4	30.9	24.5	18.1	19.1	20.1	21.2	22.2
100°	105.8	107.1	97.3	77.6	58.0	38.3	18.7	19.7	20.7	21.7	22.7
102.5°	139.7	140.5	129.5	107.6	85.7	63.8	41.9	37.7	33.6	29.4	25.3
105°	174.4	175.1	169.4	158.1	146.8	135.4	124.1	101.8	79.5	57.2	34.9
107.5°	211.4	212.0	212.9	214.8	216.7	218.6	220.5	201.1	181.7	162.3	142.9
110°	248.9	249.4	250.1	251.5	252.8	254.2	255.6	251.4	247.3	243.1	239.0

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	284.7	285.1	285.8	287.2	288.5	289.9	291.3	292.4	293.6	294.7	295.8
115°	319.8	320.2	320.8	321.9	323.0	324.2	325.3	326.6	327.8	329.1	330.4
117.5°	355.5	355.9	356.2	356.8	357.5	358.1	358.7	359.7	360.7	361.8	362.8
120°	388.7	389.3	389.5	389.9	390.2	390.6	391.0	392.0	393.0	394.1	395.1
122.5°	420.7	421.1	421.3	421.8	422.3	422.8	423.3	423.9	424.6	425.2	425.9
125°	450.6	451.1	451.4	451.9	452.4	452.9	453.4	453.6	453.9	454.1	454.4
127.5°	480.1	480.6	480.9	481.5	482.2	482.8	483.4	483.8	484.2	484.5	484.9
130°	507.3	507.8	508.0	508.5	509.0	509.5	510.0	510.5	511.0	511.5	512.0
132.5°	533.4	533.9	534.1	534.5	534.8	535.2	535.6	536.1	536.6	537.1	537.6
135°	559.0	559.4	559.6	560.1	560.6	561.1	561.6	562.0	562.4	562.7	563.1
137.5°	582.7	583.2	583.3	583.6	583.8	584.1	584.3	584.9	585.5	586.2	586.8
140°	604.3	604.7	604.9	605.3	605.6	606.0	606.4	606.9	607.4	607.9	608.4
142.5°	625.3	625.7	625.9	626.3	626.6	627.0	627.4	627.8	628.2	628.5	628.9
145°	645.1	645.5	645.6	645.9	646.1	646.4	646.6	646.9	647.1	647.4	647.7
147.5°	662.8	663.1	663.2	663.5	663.7	664.0	664.2	664.4	664.7	664.9	665.2
150°	678.7	678.9	679.0	679.3	679.6	679.8	680.1	680.3	680.6	680.8	681.1
152.5°	693.0	693.1	693.2	693.3	693.4	693.6	693.7	694.2	694.7	695.2	695.7
155°	705.7	705.6	705.7	705.8	705.9	706.0	706.1	706.7	707.4	708.0	708.7
157.5°	718.0	718.0	717.9	717.8	717.7	717.6	717.5	718.3	719.0	719.8	720.5
160°	727.8	727.7	727.6	727.5	727.4	727.2	727.1	727.9	728.6	729.4	730.1
162.5°	736.4	736.2	736.1	736.0	735.9	735.7	735.6	736.5	737.4	738.3	739.2
165°	743.7	743.5	743.4	743.3	743.2	743.1	743.0	744.0	745.0	746.0	747.0
167.5°	749.5	749.2	749.2	749.2	749.2	749.2	749.2	750.2	751.2	752.2	753.2
170°	754.6	754.3	754.3	754.3	754.3	754.3	754.3	755.3	756.3	757.3	758.3
172.5°	757.4	757.1	757.2	757.3	757.4	757.6	757.7	758.7	759.7	760.7	761.7
175°	760.3	760.0	760.1	760.2	760.3	760.4	760.5	761.4	762.3	763.2	764.1
177.5°	761.4	761.1	761.2	761.3	761.4	761.6	761.7	762.7	763.7	764.7	765.7
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	440.4	440.8	439.0	437.7	441.3	439.0	439.0	439.5	438.6	439.9	439.5
5°	415.6	416.1	412.9	413.8	412.0	411.6	411.1	413.8	413.4	412.9	413.8
7.5°	391.3	391.3	390.0	389.1	389.1	387.7	389.5	389.1	390.0	390.0	391.3
10°	371.1	372.0	369.7	367.5	367.0	367.5	367.5	367.9	368.4	371.5	371.1
12.5°	354.4	353.1	352.6	351.3	349.0	348.1	347.2	352.2	350.8	350.8	350.8
15°	336.0	339.1	338.7	334.6	333.7	335.5	334.6	334.6	339.1	338.7	338.2
17.5°	326.1	325.2	324.3	322.1	322.5	322.1	322.5	322.5	325.2	325.2	325.2
20°	314.9	313.1	313.1	312.2	312.2	310.8	312.6	313.1	314.9	314.9	315.3
22.5°	305.0	303.6	303.6	303.2	304.1	302.3	304.1	304.5	304.5	305.9	305.9
25°	296.4	295.5	295.5	296.4	296.4	296.4	296.4	298.2	296.9	297.3	296.9
27.5°	288.8	289.2	289.7	290.1	289.7	290.1	290.6	291.5	291.9	291.5	290.6
30°	281.6	282.9	283.4	283.4	284.3	284.7	285.2	285.2	285.6	284.3	285.2
32.5°	276.2	276.2	277.1	277.5	278.4	278.9	278.9	279.8	279.3	278.0	278.4
35°	268.5	268.5	270.3	271.2	272.6	272.1	272.6	272.6	273.0	272.1	270.8
37.5°	260.9	261.8	261.8	263.6	264.0	264.5	264.0	264.9	264.5	263.6	263.1
40°	251.9	251.4	251.9	253.2	253.7	253.7	253.7	254.6	254.6	254.6	254.1
42.5°	240.6	242.0	241.5	242.9	242.4	242.4	243.3	244.2	244.7	243.3	243.8
45°	229.8	229.8	230.7	230.7	231.2	231.2	233.0	232.1	233.0	232.1	232.5
47.5°	218.2	218.6	218.6	219.1	220.0	220.9	220.0	220.4	220.4	220.9	220.0
50°	205.1	205.1	206.0	207.4	209.2	208.3	207.8	209.6	208.3	208.3	207.4
52.5°	191.6	193.0	193.4	194.8	196.1	196.6	197.0	196.1	196.6	195.2	195.7
55°	178.6	179.0	180.8	182.2	183.5	183.5	183.1	183.5	184.0	182.2	182.2
57.5°	165.5	166.9	168.7	168.7	170.5	170.5	170.0	170.0	170.5	169.1	168.7
60°	151.6	152.9	155.2	155.2	157.9	158.3	157.4	156.5	156.5	155.2	155.6
62.5°	136.7	138.1	139.4	141.7	143.5	142.6	144.4	142.6	143.0	140.3	140.3
65°	123.7	124.1	126.4	128.6	128.6	129.5	128.6	129.1	127.7	127.7	125.9
67.5°	108.4	108.4	110.6	112.9	115.1	115.1	115.1	113.8	113.8	112.4	112.4
70°	94.9	94.5	96.7	98.1	99.4	99.9	99.0	98.5	97.6	96.3	95.8
72.5°	78.3	79.2	81.4	82.3	84.6	84.1	86.4	83.7	83.7	81.4	81.0
75°	63.4	64.3	66.6	67.9	69.3	69.3	70.6	69.3	67.5	66.6	66.1
77.5°	50.4	49.9	51.7	54.0	54.4	54.0	54.9	54.4	52.6	52.6	51.7
80°	36.0	37.3	39.1	38.7	40.5	40.0	40.0	39.1	39.1	37.8	38.7
82.5°	23.8	25.2	25.6	25.2	25.6	26.5	27.0	26.5	26.5	25.6	26.1
85°	12.6	12.6	13.5	13.9	13.5	13.5	13.9	15.3	14.4	13.5	14.4
87.5°	4.0	3.6	3.6	4.0	3.6	3.6	4.0	4.0	4.5	4.5	4.5
90°	15.9	16.0	16.3	16.5	16.8	17.0	16.8	16.5	16.3	16.0	15.9
92.5°	18.7	18.8	18.9	19.0	19.2	19.3	19.2	19.0	18.9	18.8	18.7
95°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
97.5°	22.7	22.8	22.9	23.0	23.1	23.2	23.1	23.0	22.9	22.8	22.7
100°	23.2	23.3	23.4	23.5	23.7	23.8	23.7	23.5	23.4	23.3	23.2
102.5°	23.2	23.3	23.6	23.9	24.1	24.4	24.1	23.9	23.6	23.3	23.2
105°	23.8	23.9	24.2	24.4	24.7	24.9	24.7	24.4	24.2	23.9	23.8
107.5°	133.2	124.9	108.4	91.9	75.4	58.9	75.4	91.9	108.4	124.9	133.2
110°	236.9	227.9	209.9	191.8	173.8	155.8	173.8	191.8	209.9	227.9	236.9

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	296.4	296.3	296.0	295.8	295.5	295.3	295.5	295.8	296.0	296.3	296.4
115°	331.0	331.2	331.7	332.2	332.7	333.2	332.7	332.2	331.7	331.2	331.0
117.5°	363.3	363.4	363.5	363.6	363.7	363.8	363.7	363.6	363.5	363.4	363.3
120°	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6	395.6
122.5°	426.2	426.3	426.4	426.5	426.6	426.7	426.6	426.5	426.4	426.3	426.2
125°	454.5	454.6	454.9	455.1	455.4	455.6	455.4	455.1	454.9	454.6	454.5
127.5°	485.1	485.0	484.7	484.5	484.2	484.0	484.2	484.5	484.7	485.0	485.1
130°	512.3	512.2	511.9	511.7	511.4	511.2	511.4	511.7	511.9	512.2	512.3
132.5°	537.8	537.6	537.2	536.9	536.5	536.1	536.5	536.9	537.2	537.6	537.8
135°	563.3	563.1	562.7	562.4	562.0	561.6	562.0	562.4	562.7	563.1	563.3
137.5°	587.1	587.0	586.7	586.5	586.2	586.0	586.2	586.5	586.7	587.0	587.1
140°	608.7	608.6	608.3	608.0	607.8	607.5	607.8	608.0	608.3	608.6	608.7
142.5°	629.1	628.9	628.5	628.2	627.8	627.4	627.8	628.2	628.5	628.9	629.1
145°	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8	647.8
147.5°	665.3	665.0	664.4	663.7	663.1	662.5	663.1	663.7	664.4	665.0	665.3
150°	681.2	681.0	680.6	680.3	679.9	679.5	679.9	680.3	680.6	681.0	681.2
152.5°	695.9	695.6	695.0	694.3	693.7	693.1	693.7	694.3	695.0	695.6	695.9
155°	709.0	708.6	707.9	707.1	706.4	705.6	706.4	707.1	707.9	708.6	709.0
157.5°	720.9	720.4	719.4	718.3	717.3	716.3	717.3	718.3	719.4	720.4	720.9
160°	730.5	730.1	729.2	728.3	727.4	726.5	727.4	728.3	729.2	730.1	730.5
162.5°	739.6	739.2	738.5	737.7	737.0	736.2	737.0	737.7	738.5	739.2	739.6
165°	747.5	747.1	746.2	745.3	744.4	743.5	744.4	745.3	746.2	747.1	747.5
167.5°	753.7	753.2	752.2	751.2	750.2	749.2	750.2	751.2	752.2	753.2	753.7
170°	758.8	758.3	757.3	756.3	755.3	754.3	755.3	756.3	757.3	758.3	758.8
172.5°	762.2	761.6	760.5	759.4	758.2	757.1	758.2	759.4	760.5	761.6	762.2
175°	764.5	764.0	763.0	762.0	761.0	760.0	761.0	762.0	763.0	764.0	764.5
177.5°	766.2	765.6	764.3	763.0	761.8	760.5	761.8	763.0	764.3	765.6	766.2
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2	464.2
2.5°	440.8	441.7	442.1	440.4	439.0	441.3	444.4	446.6	448.4	450.7	452.0
5°	414.7	417.9	417.9	418.8	420.1	422.4	428.2	432.3	435.9	438.6	440.8
7.5°	392.7	394.9	396.3	398.5	400.8	403.9	410.7	416.5	421.9	425.1	428.7
10°	372.9	374.7	376.9	378.3	382.3	386.8	395.4	400.3	406.6	411.6	416.1
12.5°	354.0	360.3	361.6	361.2	364.8	369.7	378.3	385.9	392.7	397.6	402.6
15°	340.5	342.7	345.4	345.0	352.6	354.0	361.2	370.2	379.2	382.3	386.8
17.5°	325.7	329.3	331.9	333.3	335.5	340.5	347.2	354.0	365.7	366.1	377.8
20°	314.0	317.6	319.4	321.2	322.5	328.4	334.2	341.8	351.3	356.2	362.5
22.5°	306.3	308.1	309.5	310.8	312.6	315.8	323.0	331.5	337.8	343.2	347.2
25°	297.3	299.1	300.9	301.8	303.2	305.0	310.4	317.1	326.1	329.7	333.7
27.5°	291.0	291.0	291.9	291.9	293.7	295.5	299.6	305.9	313.1	317.6	323.0
30°	284.3	283.8	284.3	283.8	283.4	286.1	289.7	295.1	300.0	305.4	309.0
32.5°	277.5	277.1	277.1	277.5	275.7	277.1	278.9	283.8	289.2	291.9	296.0
35°	270.3	269.4	269.4	269.4	268.5	267.6	269.4	273.9	277.5	281.1	284.3
37.5°	263.1	261.8	261.8	260.9	260.0	258.6	258.6	262.2	267.2	268.5	272.6
40°	253.2	253.2	252.3	251.9	251.0	250.1	248.7	251.9	256.4	257.7	260.9
42.5°	243.3	242.0	241.5	241.5	241.5	240.2	239.3	241.5	244.2	246.5	248.3
45°	232.1	231.2	231.6	231.2	230.3	229.8	229.4	230.3	233.4	234.3	236.6
47.5°	220.0	219.5	219.5	219.1	218.6	219.1	217.3	219.5	220.4	221.3	223.1
50°	207.4	206.9	206.5	206.0	206.0	206.5	206.0	206.0	207.8	208.7	210.5
52.5°	194.8	193.4	193.4	193.0	193.0	192.1	193.0	193.4	194.3	195.2	196.1
55°	181.3	181.3	179.9	179.9	179.0	179.0	179.5	179.0	180.8	181.7	181.7
57.5°	168.2	166.4	166.9	166.0	165.1	164.6	164.6	165.5	166.4	166.4	167.3
60°	154.3	152.5	152.0	150.2	151.1	149.8	150.2	150.2	152.0	151.1	152.0
62.5°	140.3	138.1	136.7	135.8	135.8	136.3	135.4	134.9	135.8	136.7	138.5
65°	125.5	124.1	122.8	121.4	121.4	121.0	121.9	120.5	120.1	120.5	121.4
67.5°	110.2	108.9	107.5	106.2	106.6	105.3	104.4	105.7	104.8	105.3	106.2
70°	95.4	94.5	91.8	90.9	90.4	90.9	90.4	89.5	90.9	90.4	90.9
72.5°	80.5	79.6	78.3	76.0	76.0	75.6	75.1	75.1	74.7	74.7	74.7
75°	66.1	64.3	63.0	62.5	61.6	61.2	60.7	59.8	60.3	60.7	59.8
77.5°	51.3	49.0	48.6	48.6	47.2	47.2	47.7	47.2	46.8	46.8	46.8
80°	37.8	36.0	36.0	35.1	34.2	34.2	34.2	34.2	33.7	33.3	33.7
82.5°	24.3	23.8	23.4	23.4	24.3	22.5	23.4	22.9	22.5	22.5	22.0
85°	13.5	13.9	13.5	13.9	13.0	13.5	13.5	13.5	13.0	13.5	12.6
87.5°	4.9	4.9	4.9	5.4	5.4	5.4	5.4	5.4	5.8	5.4	5.4
90°	15.6	15.1	14.6	14.1	13.6	12.0	10.3	8.7	7.0	6.2	5.6
92.5°	18.3	17.4	16.5	15.6	14.7	13.6	12.4	11.3	10.2	9.6	10.0
95°	21.1	20.2	19.3	18.5	17.6	16.2	14.8	13.4	12.0	11.3	13.9
97.5°	22.2	21.2	20.1	19.1	18.1	24.5	30.9	37.4	43.8	47.0	48.8
100°	22.7	21.7	20.7	19.7	18.7	38.3	58.0	77.6	97.3	107.1	105.8
102.5°	25.3	29.4	33.6	37.7	41.9	63.8	85.7	107.6	129.5	140.5	139.7
105°	34.9	57.2	79.5	101.8	124.1	135.4	146.8	158.1	169.4	175.1	174.4
107.5°	142.9	162.3	181.7	201.1	220.5	218.6	216.7	214.8	212.9	212.0	211.4
110°	239.0	243.1	247.3	251.4	255.6	254.2	252.8	251.5	250.1	249.4	248.9

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	295.8	294.7	293.6	292.4	291.3	289.9	288.5	287.2	285.8	285.1	284.7
115°	330.4	329.1	327.8	326.6	325.3	324.2	323.0	321.9	320.8	320.2	319.8
117.5°	362.8	361.8	360.7	359.7	358.7	358.1	357.5	356.8	356.2	355.9	355.5
120°	395.1	394.1	393.0	392.0	391.0	390.6	390.2	389.9	389.5	389.3	388.7
122.5°	425.9	425.2	424.6	423.9	423.3	422.8	422.3	421.8	421.3	421.1	420.7
125°	454.4	454.1	453.9	453.6	453.4	452.9	452.4	451.9	451.4	451.1	450.6
127.5°	484.9	484.5	484.2	483.8	483.4	482.8	482.2	481.5	480.9	480.6	480.1
130°	512.0	511.5	511.0	510.5	510.0	509.5	509.0	508.5	508.0	507.8	507.3
132.5°	537.6	537.1	536.6	536.1	535.6	535.2	534.8	534.5	534.1	533.9	533.4
135°	563.1	562.7	562.4	562.0	561.6	561.1	560.6	560.1	559.6	559.4	559.0
137.5°	586.8	586.2	585.5	584.9	584.3	584.1	583.8	583.6	583.3	583.2	582.7
140°	608.4	607.9	607.4	606.9	606.4	606.0	605.6	605.3	604.9	604.7	604.3
142.5°	628.9	628.5	628.2	627.8	627.4	627.0	626.6	626.3	625.9	625.7	625.3
145°	647.7	647.4	647.1	646.9	646.6	646.4	646.1	645.9	645.6	645.5	645.1
147.5°	665.2	664.9	664.7	664.4	664.2	664.0	663.7	663.5	663.2	663.1	662.8
150°	681.1	680.8	680.6	680.3	680.1	679.8	679.6	679.3	679.0	678.9	678.7
152.5°	695.7	695.2	694.7	694.2	693.7	693.6	693.4	693.3	693.2	693.1	693.0
155°	708.7	708.0	707.4	706.7	706.1	706.0	705.9	705.8	705.7	705.6	705.7
157.5°	720.5	719.8	719.0	718.3	717.5	717.6	717.7	717.8	717.9	718.0	718.0
160°	730.1	729.4	728.6	727.9	727.1	727.2	727.4	727.5	727.6	727.7	727.8
162.5°	739.2	738.3	737.4	736.5	735.6	735.7	735.9	736.0	736.1	736.2	736.4
165°	747.0	746.0	745.0	744.0	743.0	743.1	743.2	743.3	743.4	743.5	743.7
167.5°	753.2	752.2	751.2	750.2	749.2	749.2	749.2	749.2	749.2	749.2	749.5
170°	758.3	757.3	756.3	755.3	754.3	754.3	754.3	754.3	754.3	754.3	754.6
172.5°	761.7	760.7	759.7	758.7	757.7	757.6	757.4	757.3	757.2	757.1	757.4
175°	764.1	763.2	762.3	761.4	760.5	760.4	760.3	760.2	760.1	760.0	760.3
177.5°	765.7	764.7	763.7	762.7	761.7	761.6	761.4	761.3	761.2	761.1	761.4
180°	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8	762.8

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	464.2	464.2	464.2	464.2
2.5°	454.3	455.6	460.1	465.5
5°	445.3	448.9	455.2	463.7
7.5°	435.4	440.8	449.8	460.6
10°	424.2	431.8	443.0	456.5
12.5°	412.0	421.9	436.3	450.2
15°	404.4	414.3	427.3	442.6
17.5°	389.5	401.2	414.7	436.3
20°	374.2	387.3	404.8	426.4
22.5°	362.5	376.5	393.1	416.1
25°	348.6	363.0	381.0	404.8
27.5°	333.7	348.1	368.4	393.6
30°	322.5	336.4	355.8	382.8
32.5°	309.0	322.5	342.7	371.1
35°	293.7	309.0	328.4	357.1
37.5°	282.0	296.0	316.2	343.6
40°	269.4	281.6	301.4	328.4
42.5°	255.9	269.4	286.5	313.5
45°	243.3	253.2	270.8	296.4
47.5°	229.8	241.1	254.6	274.4
50°	215.5	224.9	239.7	253.2
52.5°	201.5	209.2	221.7	232.1
55°	186.7	194.3	203.8	210.1
57.5°	172.7	178.1	184.4	188.5
60°	155.6	161.0	165.1	169.1
62.5°	140.3	144.4	146.6	148.9
65°	124.6	126.8	128.2	130.0
67.5°	107.5	109.8	110.2	112.9
70°	91.8	92.2	93.1	94.5
72.5°	76.9	77.8	77.4	78.3
75°	61.6	62.5	61.6	62.5
77.5°	46.8	47.7	47.7	49.0
80°	33.7	34.2	34.6	34.6
82.5°	22.0	23.4	22.5	22.9
85°	12.6	13.0	13.0	13.5
87.5°	5.8	6.3	5.8	6.7
90°	4.3	3.1	1.8	0.6
92.5°	10.7	11.5	12.2	13.0
95°	19.1	24.2	29.4	34.6
97.5°	52.3	55.8	59.4	62.9
100°	103.3	100.8	98.3	95.8
102.5°	138.1	136.4	134.8	133.2
105°	173.0	171.7	170.3	168.9
107.5°	210.3	209.2	208.0	206.9
110°	247.9	246.8	245.8	244.8

TEST NUMBER: P1010589

CATALOG NUMBER: S123DIP-B340D585UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	283.8	282.9	282.0	281.1
115°	319.1	318.3	317.6	316.8
117.5°	354.6	353.7	352.8	351.9
120°	387.6	386.5	385.3	384.2
122.5°	419.8	418.9	418.0	417.1
125°	449.6	448.6	447.6	446.6
127.5°	479.1	478.0	477.0	476.0
130°	506.3	505.2	504.2	503.2
132.5°	532.4	531.3	530.3	529.3
135°	558.3	557.5	556.8	556.0
137.5°	581.7	580.6	579.6	578.6
140°	603.6	602.8	602.1	601.3
142.5°	624.6	623.8	623.1	622.3
145°	644.2	643.3	642.4	641.5
147.5°	662.1	661.5	660.8	660.2
150°	678.3	678.0	677.6	677.2
152.5°	692.9	692.8	692.6	692.5
155°	706.0	706.2	706.5	706.7
157.5°	718.0	718.0	718.0	718.0
160°	727.9	728.0	728.1	728.2
162.5°	736.8	737.1	737.5	737.9
165°	744.1	744.4	744.8	745.2
167.5°	750.0	750.5	751.0	751.5
170°	755.1	755.6	756.1	756.6
172.5°	758.1	758.7	759.4	760.0
175°	760.9	761.6	762.2	762.8
177.5°	762.0	762.7	763.3	763.9
180°	762.8	762.8	762.8	762.8

(END OF REPORT)