

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: P1010574

Luminaire Tested: S123DIP-B340D365UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010574
REPORT IS A COMBINATION OF REPORTS P989748 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D365UB2750-4F0-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

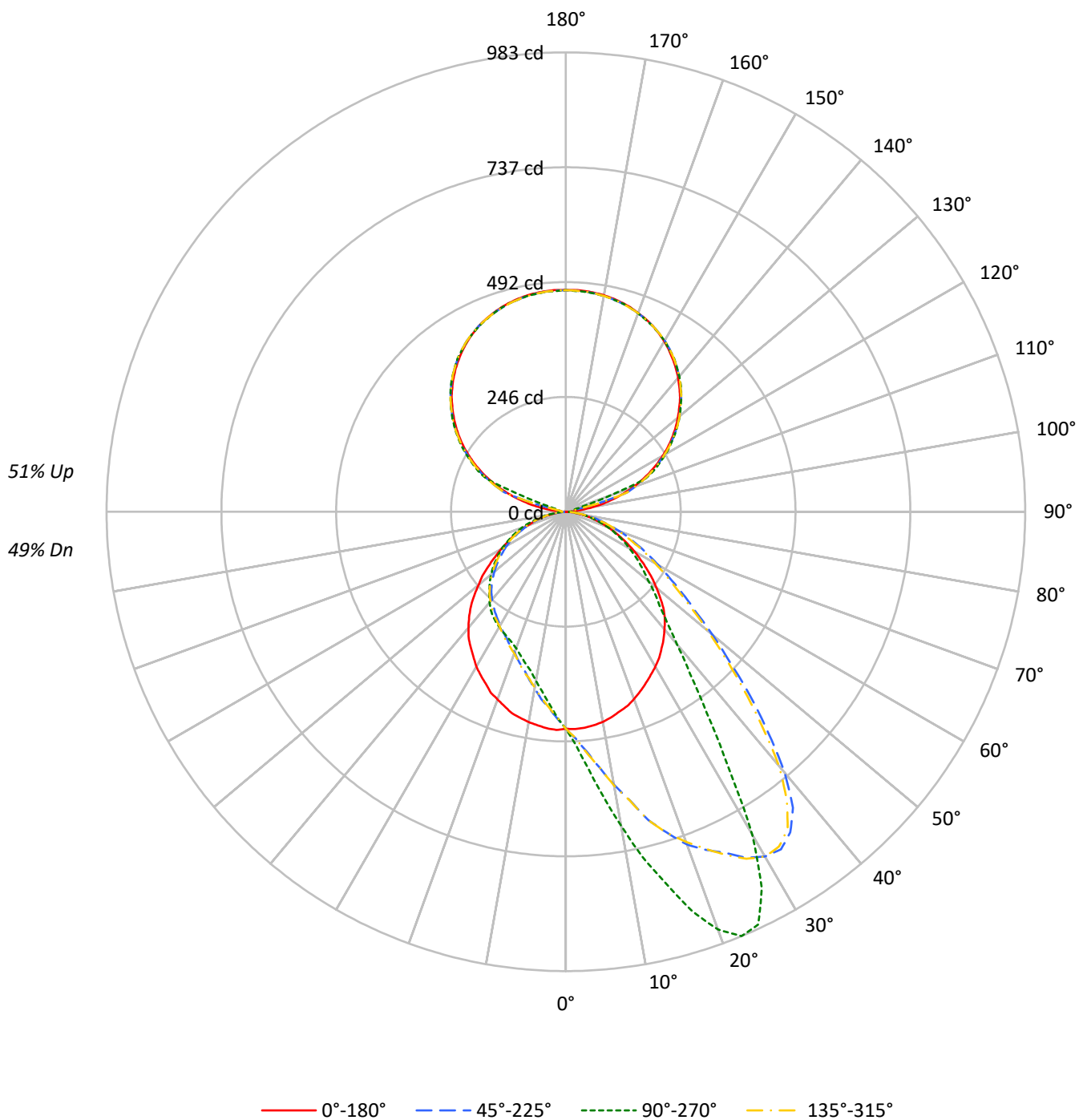
Lumens per Lamp: N/A
Luminaire Lumens: 2848.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49		
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	49	48	47	42		
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36		
3	82	72	65	59	75	67	61	56	57	52	48	48	44	41	39	37	35	30		
4	75	64	56	50	69	60	53	47	51	46	41	43	39	36	35	32	30	26		
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	32	29	26	23		
6	63	51	43	38	58	48	41	35	41	35	31	35	30	27	29	26	23	20		
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18		
8	54	42	34	29	50	39	32	28	34	28	25	29	25	21	24	21	18	16		
9	51	38	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	14		
10	47	35	28	23	44	33	26	22	29	23	20	24	20	17	21	17	15	13		

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	1.6
10°-20°	146.6	5.1
20°-30°	246.7	8.7
30°-40°	278.8	9.8
40°-50°	249.7	8.8
50°-60°	201.6	7.1
60°-70°	140.5	4.9
70°-80°	73.7	2.6
80°-90°	18.6	0.7
90°-100°	16.7	0.6
100°-110°	80.9	2.8
110°-120°	198.2	7.0
120°-130°	251.6	8.8
130°-140°	268.8	9.4
140°-150°	251.3	8.8
150°-160°	202.7	7.1
160°-170°	130.8	4.6
170°-180°	45.1	1.6
0°-30°	439.0	15.4
0°-40°	717.8	25.2
0°-60°	1169.1	41.1
0°-90°	1401.9	49.2
90°-120°	295.8	10.4
90°-150°	1067.4	37.5
90°-180°	1446.0	50.8
0°-180°	2848.0	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°	0	11	0	11	0	2
95°	22	13	22	13	22	26
105°	105	16	105	16	105	111
115°	197	207	197	207	197	195
125°	278	283	278	283	278	248
135°	346	349	346	349	346	266
145°	399	403	399	403	399	250
155°	439	439	439	439	439	202
165°	463	462	463	462	463	131
175°	474	473	474	473	474	45
180°	474	474	474	474	474	

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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°	0.4	1.2	2.0	2.7	3.5	3.9	4.4	5.4	6.5	7.5	8.5
92.5°	8.1	7.6	7.2	6.7	6.2	6.0	6.4	7.1	7.8	8.5	9.2
95°	21.5	18.3	15.1	11.8	8.6	7.0	7.4	8.3	9.2	10.0	10.9
97.5°	39.1	36.9	34.7	32.5	30.3	29.2	27.2	23.2	19.3	15.3	11.3
100°	59.6	61.2	62.7	64.3	65.8	66.6	60.5	48.3	36.0	23.8	11.6
102.5°	82.8	83.8	84.8	85.9	86.9	87.4	80.6	67.0	53.3	39.7	26.1
105°	105.0	105.9	106.7	107.6	108.5	108.9	105.4	98.3	91.3	84.2	77.2
107.5°	128.6	129.3	130.0	130.7	131.4	131.8	132.4	133.6	134.7	135.9	137.1
110°	152.2	152.8	153.5	154.1	154.8	155.1	155.5	156.4	157.2	158.1	158.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	174.8	175.4	175.9	176.5	177.0	177.3	177.7	178.6	179.4	180.3	181.1
115°	197.0	197.5	197.9	198.4	198.9	199.1	199.5	200.2	200.9	201.6	202.3
117.5°	218.8	219.4	219.9	220.5	221.0	221.3	221.5	221.9	222.3	222.7	223.1
120°	238.9	239.6	240.3	241.0	241.7	242.1	242.2	242.5	242.7	243.0	243.2
122.5°	259.4	259.9	260.5	261.0	261.5	261.8	262.0	262.3	262.6	262.9	263.2
125°	277.7	278.3	278.9	279.6	280.2	280.5	280.7	281.0	281.3	281.6	281.9
127.5°	296.0	296.6	297.2	297.9	298.5	298.8	299.0	299.4	299.8	300.2	300.6
130°	312.9	313.5	314.2	314.8	315.5	315.8	316.0	316.3	316.6	316.9	317.2
132.5°	329.1	329.7	330.4	331.0	331.7	332.0	332.1	332.3	332.6	332.8	333.0
135°	345.7	346.2	346.6	347.1	347.6	347.8	348.0	348.3	348.6	348.9	349.2
137.5°	359.8	360.4	361.0	361.7	362.3	362.6	362.7	362.8	363.0	363.1	363.3
140°	373.9	374.4	374.8	375.3	375.8	376.0	376.1	376.4	376.6	376.9	377.1
142.5°	386.9	387.4	387.9	388.4	388.9	389.1	389.2	389.4	389.7	389.9	390.1
145°	398.9	399.5	400.0	400.6	401.1	401.4	401.5	401.6	401.8	401.9	402.1
147.5°	410.6	411.0	411.4	411.7	412.1	412.3	412.4	412.5	412.7	412.8	413.0
150°	421.1	421.3	421.6	421.8	422.1	422.2	422.3	422.4	422.6	422.7	422.9
152.5°	430.6	430.7	430.8	430.9	431.0	431.0	431.0	431.1	431.2	431.2	431.3
155°	439.4	439.2	439.1	438.9	438.8	438.7	438.7	438.8	438.9	439.0	439.1
157.5°	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.4	446.3	446.2	446.1
160°	452.8	452.7	452.7	452.6	452.5	452.5	452.5	452.4	452.3	452.2	452.1
162.5°	458.8	458.6	458.4	458.1	457.9	457.8	457.8	457.7	457.6	457.5	457.4
165°	463.4	463.2	463.0	462.7	462.5	462.4	462.4	462.3	462.2	462.1	462.0
167.5°	467.3	467.0	466.7	466.4	466.1	465.9	465.9	465.9	465.9	465.9	465.9
170°	470.5	470.2	469.8	469.5	469.2	469.0	469.0	469.0	469.0	469.0	469.0
172.5°	472.6	472.2	471.8	471.4	471.0	470.8	470.8	470.9	471.0	471.1	471.2
175°	474.3	473.9	473.5	473.2	472.8	472.6	472.6	472.7	472.8	472.8	472.9
177.5°	475.0	474.6	474.2	473.9	473.5	473.3	473.3	473.4	473.5	473.5	473.6
180°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3

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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°	8.8	9.1	9.4	9.7	9.9	10.0	10.1	10.3	10.4	10.6	10.4
92.5°	9.7	10.3	10.8	11.3	11.6	11.6	11.7	11.8	11.9	12.0	11.9
95°	11.5	12.0	12.6	13.1	13.4	13.4	13.4	13.4	13.4	13.4	13.4
97.5°	11.9	12.5	13.2	13.8	14.1	14.1	14.2	14.3	14.3	14.4	14.3
100°	12.2	12.8	13.5	14.1	14.4	14.4	14.5	14.6	14.7	14.8	14.7
102.5°	23.5	20.9	18.3	15.7	14.4	14.5	14.7	14.8	15.0	15.2	15.0
105°	63.3	49.5	35.6	21.7	14.8	14.9	15.0	15.2	15.3	15.5	15.3
107.5°	125.0	113.0	100.9	88.8	82.8	77.7	67.4	57.2	46.9	36.7	46.9
110°	156.3	153.7	151.2	148.6	147.3	141.7	130.5	119.3	108.1	96.9	108.1

TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	181.8	182.5	183.2	183.9	184.3	184.2	184.1	183.9	183.8	183.6	183.8
115°	203.1	203.9	204.6	205.4	205.8	206.0	206.3	206.6	206.9	207.2	206.9
117.5°	223.7	224.3	225.0	225.6	225.9	225.9	226.0	226.1	226.1	226.2	226.1
120°	243.8	244.4	245.1	245.7	246.0	246.0	246.0	246.0	246.0	246.0	246.0
122.5°	263.6	264.0	264.4	264.8	265.0	265.0	265.1	265.2	265.3	265.4	265.3
125°	282.1	282.2	282.4	282.5	282.6	282.7	282.8	283.0	283.1	283.3	283.1
127.5°	300.8	301.1	301.3	301.6	301.7	301.6	301.5	301.3	301.2	301.0	301.2
130°	317.5	317.8	318.1	318.4	318.6	318.5	318.4	318.2	318.1	317.9	318.1
132.5°	333.3	333.6	333.9	334.2	334.4	334.3	334.1	333.8	333.6	333.4	333.6
135°	349.4	349.7	349.9	350.2	350.3	350.2	349.9	349.7	349.4	349.2	349.4
137.5°	363.7	364.1	364.5	364.9	365.1	365.0	364.9	364.7	364.6	364.4	364.6
140°	377.4	377.7	378.0	378.3	378.5	378.4	378.3	378.1	378.0	377.8	378.0
142.5°	390.3	390.6	390.8	391.1	391.2	391.1	390.8	390.6	390.3	390.1	390.3
145°	402.3	402.4	402.6	402.7	402.8	402.8	402.8	402.8	402.8	402.8	402.8
147.5°	413.2	413.3	413.5	413.6	413.7	413.5	413.1	412.8	412.4	412.0	412.4
150°	423.1	423.2	423.4	423.5	423.6	423.5	423.2	423.0	422.7	422.5	422.7
152.5°	431.6	432.0	432.3	432.6	432.8	432.6	432.2	431.8	431.4	431.0	431.4
155°	439.5	439.9	440.3	440.7	440.9	440.7	440.2	439.7	439.2	438.7	439.2
157.5°	446.6	447.1	447.6	448.1	448.3	448.0	447.3	446.7	446.0	445.4	446.0
160°	452.6	453.0	453.5	454.0	454.2	453.9	453.4	452.9	452.3	451.8	452.3
162.5°	458.0	458.5	459.1	459.6	459.9	459.7	459.2	458.7	458.3	457.8	458.3
165°	462.6	463.2	463.9	464.5	464.8	464.5	464.0	463.5	462.9	462.4	462.9
167.5°	466.5	467.1	467.8	468.4	468.7	468.4	467.8	467.1	466.5	465.9	466.5
170°	469.6	470.3	470.9	471.6	471.9	471.6	470.9	470.3	469.6	469.0	469.6
172.5°	471.8	472.4	473.1	473.7	474.0	473.6	472.9	472.2	471.5	470.8	471.5
175°	473.5	474.0	474.6	475.1	475.4	475.1	474.5	473.8	473.2	472.6	473.2
177.5°	474.2	474.9	475.5	476.2	476.5	476.1	475.3	474.5	473.7	472.9	473.7
180°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3

TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-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°	10.3	10.1	10.0	9.9	9.7	9.4	9.1	8.8	8.5	7.5	6.5
92.5°	11.8	11.7	11.6	11.6	11.3	10.8	10.3	9.7	9.2	8.5	7.8
95°	13.4	13.4	13.4	13.4	13.1	12.6	12.0	11.5	10.9	10.0	9.2
97.5°	14.3	14.2	14.1	14.1	13.8	13.2	12.5	11.9	11.3	15.3	19.3
100°	14.6	14.5	14.4	14.4	14.1	13.5	12.8	12.2	11.6	23.8	36.0
102.5°	14.8	14.7	14.5	14.4	15.7	18.3	20.9	23.5	26.1	39.7	53.3
105°	15.2	15.0	14.9	14.8	21.7	35.6	49.5	63.3	77.2	84.2	91.3
107.5°	57.2	67.4	77.7	82.8	88.8	100.9	113.0	125.0	137.1	135.9	134.7
110°	119.3	130.5	141.7	147.3	148.6	151.2	153.7	156.3	158.9	158.1	157.2

TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	183.9	184.1	184.2	184.3	183.9	183.2	182.5	181.8	181.1	180.3	179.4
115°	206.6	206.3	206.0	205.8	205.4	204.6	203.9	203.1	202.3	201.6	200.9
117.5°	226.1	226.0	225.9	225.9	225.6	225.0	224.3	223.7	223.1	222.7	222.3
120°	246.0	246.0	246.0	246.0	245.7	245.1	244.4	243.8	243.2	243.0	242.7
122.5°	265.2	265.1	265.0	265.0	264.8	264.4	264.0	263.6	263.2	262.9	262.6
125°	283.0	282.8	282.7	282.6	282.5	282.4	282.2	282.1	281.9	281.6	281.3
127.5°	301.3	301.5	301.6	301.7	301.6	301.3	301.1	300.8	300.6	300.2	299.8
130°	318.2	318.4	318.5	318.6	318.4	318.1	317.8	317.5	317.2	316.9	316.6
132.5°	333.8	334.1	334.3	334.4	334.2	333.9	333.6	333.3	333.0	332.8	332.6
135°	349.7	349.9	350.2	350.3	350.2	349.9	349.7	349.4	349.2	348.9	348.6
137.5°	364.7	364.9	365.0	365.1	364.9	364.5	364.1	363.7	363.3	363.1	363.0
140°	378.1	378.3	378.4	378.5	378.3	378.0	377.7	377.4	377.1	376.9	376.6
142.5°	390.6	390.8	391.1	391.2	391.1	390.8	390.6	390.3	390.1	389.9	389.7
145°	402.8	402.8	402.8	402.8	402.7	402.6	402.4	402.3	402.1	401.9	401.8
147.5°	412.8	413.1	413.5	413.7	413.6	413.5	413.3	413.2	413.0	412.8	412.7
150°	423.0	423.2	423.5	423.6	423.5	423.4	423.2	423.1	422.9	422.7	422.6
152.5°	431.8	432.2	432.6	432.8	432.6	432.3	432.0	431.6	431.3	431.2	431.2
155°	439.7	440.2	440.7	440.9	440.7	440.3	439.9	439.5	439.1	439.0	438.9
157.5°	446.7	447.3	448.0	448.3	448.1	447.6	447.1	446.6	446.1	446.2	446.3
160°	452.9	453.4	453.9	454.2	454.0	453.5	453.0	452.6	452.1	452.2	452.3
162.5°	458.7	459.2	459.7	459.9	459.6	459.1	458.5	458.0	457.4	457.5	457.6
165°	463.5	464.0	464.5	464.8	464.5	463.9	463.2	462.6	462.0	462.1	462.2
167.5°	467.1	467.8	468.4	468.7	468.4	467.8	467.1	466.5	465.9	465.9	465.9
170°	470.3	470.9	471.6	471.9	471.6	470.9	470.3	469.6	469.0	469.0	469.0
172.5°	472.2	472.9	473.6	474.0	473.7	473.1	472.4	471.8	471.2	471.1	471.0
175°	473.8	474.5	475.1	475.4	475.1	474.6	474.0	473.5	472.9	472.8	472.8
177.5°	474.5	475.3	476.1	476.5	476.2	475.5	474.9	474.2	473.6	473.5	473.5
180°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3

TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-XX-W2A-A_2700K

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°	5.4	4.4	3.9	3.5	2.7	2.0	1.2	0.4	1.2	2.0	2.7
92.5°	7.1	6.4	6.0	6.2	6.7	7.2	7.6	8.1	7.6	7.2	6.7
95°	8.3	7.4	7.0	8.6	11.8	15.1	18.3	21.5	18.3	15.1	11.8
97.5°	23.2	27.2	29.2	30.3	32.5	34.7	36.9	39.1	36.9	34.7	32.5
100°	48.3	60.5	66.6	65.8	64.3	62.7	61.2	59.6	61.2	62.7	64.3
102.5°	67.0	80.6	87.4	86.9	85.9	84.8	83.8	82.8	83.8	84.8	85.9
105°	98.3	105.4	108.9	108.5	107.6	106.7	105.9	105.0	105.9	106.7	107.6
107.5°	133.6	132.4	131.8	131.4	130.7	130.0	129.3	128.6	129.3	130.0	130.7
110°	156.4	155.5	155.1	154.8	154.1	153.5	152.8	152.2	152.8	153.5	154.1



TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	178.6	177.7	177.3	177.0	176.5	175.9	175.4	174.8	175.4	175.9	176.5
115°	200.2	199.5	199.1	198.9	198.4	197.9	197.5	197.0	197.5	197.9	198.4
117.5°	221.9	221.5	221.3	221.0	220.5	219.9	219.4	218.8	219.4	219.9	220.5
120°	242.5	242.2	242.1	241.7	241.0	240.3	239.6	238.9	239.6	240.3	241.0
122.5°	262.3	262.0	261.8	261.5	261.0	260.5	259.9	259.4	259.9	260.5	261.0
125°	281.0	280.7	280.5	280.2	279.6	278.9	278.3	277.7	278.3	278.9	279.6
127.5°	299.4	299.0	298.8	298.5	297.9	297.2	296.6	296.0	296.6	297.2	297.9
130°	316.3	316.0	315.8	315.5	314.8	314.2	313.5	312.9	313.5	314.2	314.8
132.5°	332.3	332.1	332.0	331.7	331.0	330.4	329.7	329.1	329.7	330.4	331.0
135°	348.3	348.0	347.8	347.6	347.1	346.6	346.2	345.7	346.2	346.6	347.1
137.5°	362.8	362.7	362.6	362.3	361.7	361.0	360.4	359.8	360.4	361.0	361.7
140°	376.4	376.1	376.0	375.8	375.3	374.8	374.4	373.9	374.4	374.8	375.3
142.5°	389.4	389.2	389.1	388.9	388.4	387.9	387.4	386.9	387.4	387.9	388.4
145°	401.6	401.5	401.4	401.1	400.6	400.0	399.5	398.9	399.5	400.0	400.6
147.5°	412.5	412.4	412.3	412.1	411.7	411.4	411.0	410.6	411.0	411.4	411.7
150°	422.4	422.3	422.2	422.1	421.8	421.6	421.3	421.1	421.3	421.6	421.8
152.5°	431.1	431.0	431.0	431.0	430.9	430.8	430.7	430.6	430.7	430.8	430.9
155°	438.8	438.7	438.7	438.8	438.9	439.1	439.2	439.4	439.2	439.1	438.9
157.5°	446.4	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5	446.5
160°	452.4	452.5	452.5	452.5	452.6	452.7	452.7	452.8	452.7	452.7	452.6
162.5°	457.7	457.8	457.8	457.9	458.1	458.4	458.6	458.8	458.6	458.4	458.1
165°	462.3	462.4	462.4	462.5	462.7	463.0	463.2	463.4	463.2	463.0	462.7
167.5°	465.9	465.9	465.9	466.1	466.4	466.7	467.0	467.3	467.0	466.7	466.4
170°	469.0	469.0	469.0	469.2	469.5	469.8	470.2	470.5	470.2	469.8	469.5
172.5°	470.9	470.8	470.8	471.0	471.4	471.8	472.2	472.6	472.2	471.8	471.4
175°	472.7	472.6	472.6	472.8	473.2	473.5	473.9	474.3	473.9	473.5	473.2
177.5°	473.4	473.3	473.3	473.5	473.9	474.2	474.6	475.0	474.6	474.2	473.9
180°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3

TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-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°	3.5	3.9	4.4	5.4	6.5	7.5	8.5	8.8	9.1	9.4	9.7
92.5°	6.2	6.0	6.4	7.1	7.8	8.5	9.2	9.7	10.3	10.8	11.3
95°	8.6	7.0	7.4	8.3	9.2	10.0	10.9	11.5	12.0	12.6	13.1
97.5°	30.3	29.2	27.2	23.2	19.3	15.3	11.3	11.9	12.5	13.2	13.8
100°	65.8	66.6	60.5	48.3	36.0	23.8	11.6	12.2	12.8	13.5	14.1
102.5°	86.9	87.4	80.6	67.0	53.3	39.7	26.1	23.5	20.9	18.3	15.7
105°	108.5	108.9	105.4	98.3	91.3	84.2	77.2	63.3	49.5	35.6	21.7
107.5°	131.4	131.8	132.4	133.6	134.7	135.9	137.1	125.0	113.0	100.9	88.8
110°	154.8	155.1	155.5	156.4	157.2	158.1	158.9	156.3	153.7	151.2	148.6

TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	177.0	177.3	177.7	178.6	179.4	180.3	181.1	181.8	182.5	183.2	183.9
115°	198.9	199.1	199.5	200.2	200.9	201.6	202.3	203.1	203.9	204.6	205.4
117.5°	221.0	221.3	221.5	221.9	222.3	222.7	223.1	223.7	224.3	225.0	225.6
120°	241.7	242.1	242.2	242.5	242.7	243.0	243.2	243.8	244.4	245.1	245.7
122.5°	261.5	261.8	262.0	262.3	262.6	262.9	263.2	263.6	264.0	264.4	264.8
125°	280.2	280.5	280.7	281.0	281.3	281.6	281.9	282.1	282.2	282.4	282.5
127.5°	298.5	298.8	299.0	299.4	299.8	300.2	300.6	300.8	301.1	301.3	301.6
130°	315.5	315.8	316.0	316.3	316.6	316.9	317.2	317.5	317.8	318.1	318.4
132.5°	331.7	332.0	332.1	332.3	332.6	332.8	333.0	333.3	333.6	333.9	334.2
135°	347.6	347.8	348.0	348.3	348.6	348.9	349.2	349.4	349.7	349.9	350.2
137.5°	362.3	362.6	362.7	362.8	363.0	363.1	363.3	363.7	364.1	364.5	364.9
140°	375.8	376.0	376.1	376.4	376.6	376.9	377.1	377.4	377.7	378.0	378.3
142.5°	388.9	389.1	389.2	389.4	389.7	389.9	390.1	390.3	390.6	390.8	391.1
145°	401.1	401.4	401.5	401.6	401.8	401.9	402.1	402.3	402.4	402.6	402.7
147.5°	412.1	412.3	412.4	412.5	412.7	412.8	413.0	413.2	413.3	413.5	413.6
150°	422.1	422.2	422.3	422.4	422.6	422.7	422.9	423.1	423.2	423.4	423.5
152.5°	431.0	431.0	431.0	431.1	431.2	431.2	431.3	431.6	432.0	432.3	432.6
155°	438.8	438.7	438.7	438.8	438.9	439.0	439.1	439.5	439.9	440.3	440.7
157.5°	446.5	446.5	446.5	446.4	446.3	446.2	446.1	446.6	447.1	447.6	448.1
160°	452.5	452.5	452.5	452.4	452.3	452.2	452.1	452.6	453.0	453.5	454.0
162.5°	457.9	457.8	457.8	457.7	457.6	457.5	457.4	458.0	458.5	459.1	459.6
165°	462.5	462.4	462.4	462.3	462.2	462.1	462.0	462.6	463.2	463.9	464.5
167.5°	466.1	465.9	465.9	465.9	465.9	465.9	465.9	466.5	467.1	467.8	468.4
170°	469.2	469.0	469.0	469.0	469.0	469.0	469.0	469.6	470.3	470.9	471.6
172.5°	471.0	470.8	470.8	470.9	471.0	471.1	471.2	471.8	472.4	473.1	473.7
175°	472.8	472.6	472.6	472.7	472.8	472.8	472.9	473.5	474.0	474.6	475.1
177.5°	473.5	473.3	473.3	473.4	473.5	473.5	473.6	474.2	474.9	475.5	476.2
180°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3

TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-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°	9.9	10.0	10.1	10.3	10.4	10.6	10.4	10.3	10.1	10.0	9.9
92.5°	11.6	11.6	11.7	11.8	11.9	12.0	11.9	11.8	11.7	11.6	11.6
95°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
97.5°	14.1	14.1	14.2	14.3	14.3	14.4	14.3	14.3	14.2	14.1	14.1
100°	14.4	14.4	14.5	14.6	14.7	14.8	14.7	14.6	14.5	14.4	14.4
102.5°	14.4	14.5	14.7	14.8	15.0	15.2	15.0	14.8	14.7	14.5	14.4
105°	14.8	14.9	15.0	15.2	15.3	15.5	15.3	15.2	15.0	14.9	14.8
107.5°	82.8	77.7	67.4	57.2	46.9	36.7	46.9	57.2	67.4	77.7	82.8
110°	147.3	141.7	130.5	119.3	108.1	96.9	108.1	119.3	130.5	141.7	147.3

TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	184.3	184.2	184.1	183.9	183.8	183.6	183.8	183.9	184.1	184.2	184.3
115°	205.8	206.0	206.3	206.6	206.9	207.2	206.9	206.6	206.3	206.0	205.8
117.5°	225.9	225.9	226.0	226.1	226.1	226.2	226.1	226.1	226.0	225.9	225.9
120°	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0	246.0
122.5°	265.0	265.0	265.1	265.2	265.3	265.4	265.3	265.2	265.1	265.0	265.0
125°	282.6	282.7	282.8	283.0	283.1	283.3	283.1	283.0	282.8	282.7	282.6
127.5°	301.7	301.6	301.5	301.3	301.2	301.0	301.2	301.3	301.5	301.6	301.7
130°	318.6	318.5	318.4	318.2	318.1	317.9	318.1	318.2	318.4	318.5	318.6
132.5°	334.4	334.3	334.1	333.8	333.6	333.4	333.6	333.8	334.1	334.3	334.4
135°	350.3	350.2	349.9	349.7	349.4	349.2	349.4	349.7	349.9	350.2	350.3
137.5°	365.1	365.0	364.9	364.7	364.6	364.4	364.6	364.7	364.9	365.0	365.1
140°	378.5	378.4	378.3	378.1	378.0	377.8	378.0	378.1	378.3	378.4	378.5
142.5°	391.2	391.1	390.8	390.6	390.3	390.1	390.3	390.6	390.8	391.1	391.2
145°	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8	402.8
147.5°	413.7	413.5	413.1	412.8	412.4	412.0	412.4	412.8	413.1	413.5	413.7
150°	423.6	423.5	423.2	423.0	422.7	422.5	422.7	423.0	423.2	423.5	423.6
152.5°	432.8	432.6	432.2	431.8	431.4	431.0	431.4	431.8	432.2	432.6	432.8
155°	440.9	440.7	440.2	439.7	439.2	438.7	439.2	439.7	440.2	440.7	440.9
157.5°	448.3	448.0	447.3	446.7	446.0	445.4	446.0	446.7	447.3	448.0	448.3
160°	454.2	453.9	453.4	452.9	452.3	451.8	452.3	452.9	453.4	453.9	454.2
162.5°	459.9	459.7	459.2	458.7	458.3	457.8	458.3	458.7	459.2	459.7	459.9
165°	464.8	464.5	464.0	463.5	462.9	462.4	462.9	463.5	464.0	464.5	464.8
167.5°	468.7	468.4	467.8	467.1	466.5	465.9	466.5	467.1	467.8	468.4	468.7
170°	471.9	471.6	470.9	470.3	469.6	469.0	469.6	470.3	470.9	471.6	471.9
172.5°	474.0	473.6	472.9	472.2	471.5	470.8	471.5	472.2	472.9	473.6	474.0
175°	475.4	475.1	474.5	473.8	473.2	472.6	473.2	473.8	474.5	475.1	475.4
177.5°	476.5	476.1	475.3	474.5	473.7	472.9	473.7	474.5	475.3	476.1	476.5
180°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3

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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°	9.7	9.4	9.1	8.8	8.5	7.5	6.5	5.4	4.4	3.9	3.5
92.5°	11.3	10.8	10.3	9.7	9.2	8.5	7.8	7.1	6.4	6.0	6.2
95°	13.1	12.6	12.0	11.5	10.9	10.0	9.2	8.3	7.4	7.0	8.6
97.5°	13.8	13.2	12.5	11.9	11.3	15.3	19.3	23.2	27.2	29.2	30.3
100°	14.1	13.5	12.8	12.2	11.6	23.8	36.0	48.3	60.5	66.6	65.8
102.5°	15.7	18.3	20.9	23.5	26.1	39.7	53.3	67.0	80.6	87.4	86.9
105°	21.7	35.6	49.5	63.3	77.2	84.2	91.3	98.3	105.4	108.9	108.5
107.5°	88.8	100.9	113.0	125.0	137.1	135.9	134.7	133.6	132.4	131.8	131.4
110°	148.6	151.2	153.7	156.3	158.9	158.1	157.2	156.4	155.5	155.1	154.8

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	183.9	183.2	182.5	181.8	181.1	180.3	179.4	178.6	177.7	177.3	177.0
115°	205.4	204.6	203.9	203.1	202.3	201.6	200.9	200.2	199.5	199.1	198.9
117.5°	225.6	225.0	224.3	223.7	223.1	222.7	222.3	221.9	221.5	221.3	221.0
120°	245.7	245.1	244.4	243.8	243.2	243.0	242.7	242.5	242.2	242.1	241.7
122.5°	264.8	264.4	264.0	263.6	263.2	262.9	262.6	262.3	262.0	261.8	261.5
125°	282.5	282.4	282.2	282.1	281.9	281.6	281.3	281.0	280.7	280.5	280.2
127.5°	301.6	301.3	301.1	300.8	300.6	300.2	299.8	299.4	299.0	298.8	298.5
130°	318.4	318.1	317.8	317.5	317.2	316.9	316.6	316.3	316.0	315.8	315.5
132.5°	334.2	333.9	333.6	333.3	333.0	332.8	332.6	332.3	332.1	332.0	331.7
135°	350.2	349.9	349.7	349.4	349.2	348.9	348.6	348.3	348.0	347.8	347.6
137.5°	364.9	364.5	364.1	363.7	363.3	363.1	363.0	362.8	362.7	362.6	362.3
140°	378.3	378.0	377.7	377.4	377.1	376.9	376.6	376.4	376.1	376.0	375.8
142.5°	391.1	390.8	390.6	390.3	390.1	389.9	389.7	389.4	389.2	389.1	388.9
145°	402.7	402.6	402.4	402.3	402.1	401.9	401.8	401.6	401.5	401.4	401.1
147.5°	413.6	413.5	413.3	413.2	413.0	412.8	412.7	412.5	412.4	412.3	412.1
150°	423.5	423.4	423.2	423.1	422.9	422.7	422.6	422.4	422.3	422.2	422.1
152.5°	432.6	432.3	432.0	431.6	431.3	431.2	431.2	431.1	431.0	431.0	431.0
155°	440.7	440.3	439.9	439.5	439.1	439.0	438.9	438.8	438.7	438.7	438.8
157.5°	448.1	447.6	447.1	446.6	446.1	446.2	446.3	446.4	446.5	446.5	446.5
160°	454.0	453.5	453.0	452.6	452.1	452.2	452.3	452.4	452.5	452.5	452.5
162.5°	459.6	459.1	458.5	458.0	457.4	457.5	457.6	457.7	457.8	457.8	457.9
165°	464.5	463.9	463.2	462.6	462.0	462.1	462.2	462.3	462.4	462.4	462.5
167.5°	468.4	467.8	467.1	466.5	465.9	465.9	465.9	465.9	465.9	465.9	466.1
170°	471.6	470.9	470.3	469.6	469.0	469.0	469.0	469.0	469.0	469.0	469.2
172.5°	473.7	473.1	472.4	471.8	471.2	471.1	471.0	470.9	470.8	470.8	471.0
175°	475.1	474.6	474.0	473.5	472.9	472.8	472.8	472.7	472.6	472.6	472.8
177.5°	476.2	475.5	474.9	474.2	473.6	473.5	473.5	473.4	473.3	473.3	473.5
180°	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3	474.3

TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-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°	2.7	2.0	1.2	0.4
92.5°	6.7	7.2	7.6	8.1
95°	11.8	15.1	18.3	21.5
97.5°	32.5	34.7	36.9	39.1
100°	64.3	62.7	61.2	59.6
102.5°	85.9	84.8	83.8	82.8
105°	107.6	106.7	105.9	105.0
107.5°	130.7	130.0	129.3	128.6
110°	154.1	153.5	152.8	152.2



TEST NUMBER: P1010574

CATALOG NUMBER: S123DIP-B340D365UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	176.5	175.9	175.4	174.8
115°	198.4	197.9	197.5	197.0
117.5°	220.5	219.9	219.4	218.8
120°	241.0	240.3	239.6	238.9
122.5°	261.0	260.5	259.9	259.4
125°	279.6	278.9	278.3	277.7
127.5°	297.9	297.2	296.6	296.0
130°	314.8	314.2	313.5	312.9
132.5°	331.0	330.4	329.7	329.1
135°	347.1	346.6	346.2	345.7
137.5°	361.7	361.0	360.4	359.8
140°	375.3	374.8	374.4	373.9
142.5°	388.4	387.9	387.4	386.9
145°	400.6	400.0	399.5	398.9
147.5°	411.7	411.4	411.0	410.6
150°	421.8	421.6	421.3	421.1
152.5°	430.9	430.8	430.7	430.6
155°	438.9	439.1	439.2	439.4
157.5°	446.5	446.5	446.5	446.5
160°	452.6	452.7	452.7	452.8
162.5°	458.1	458.4	458.6	458.8
165°	462.7	463.0	463.2	463.4
167.5°	466.4	466.7	467.0	467.3
170°	469.5	469.8	470.2	470.5
172.5°	471.4	471.8	472.2	472.6
175°	473.2	473.5	473.9	474.3
177.5°	473.9	474.2	474.6	475.0
180°	474.3	474.3	474.3	474.3

(END OF REPORT)