

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: P1013034

Luminaire Tested: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013034
REPORT IS A COMBINATION OF REPORTS P995912 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

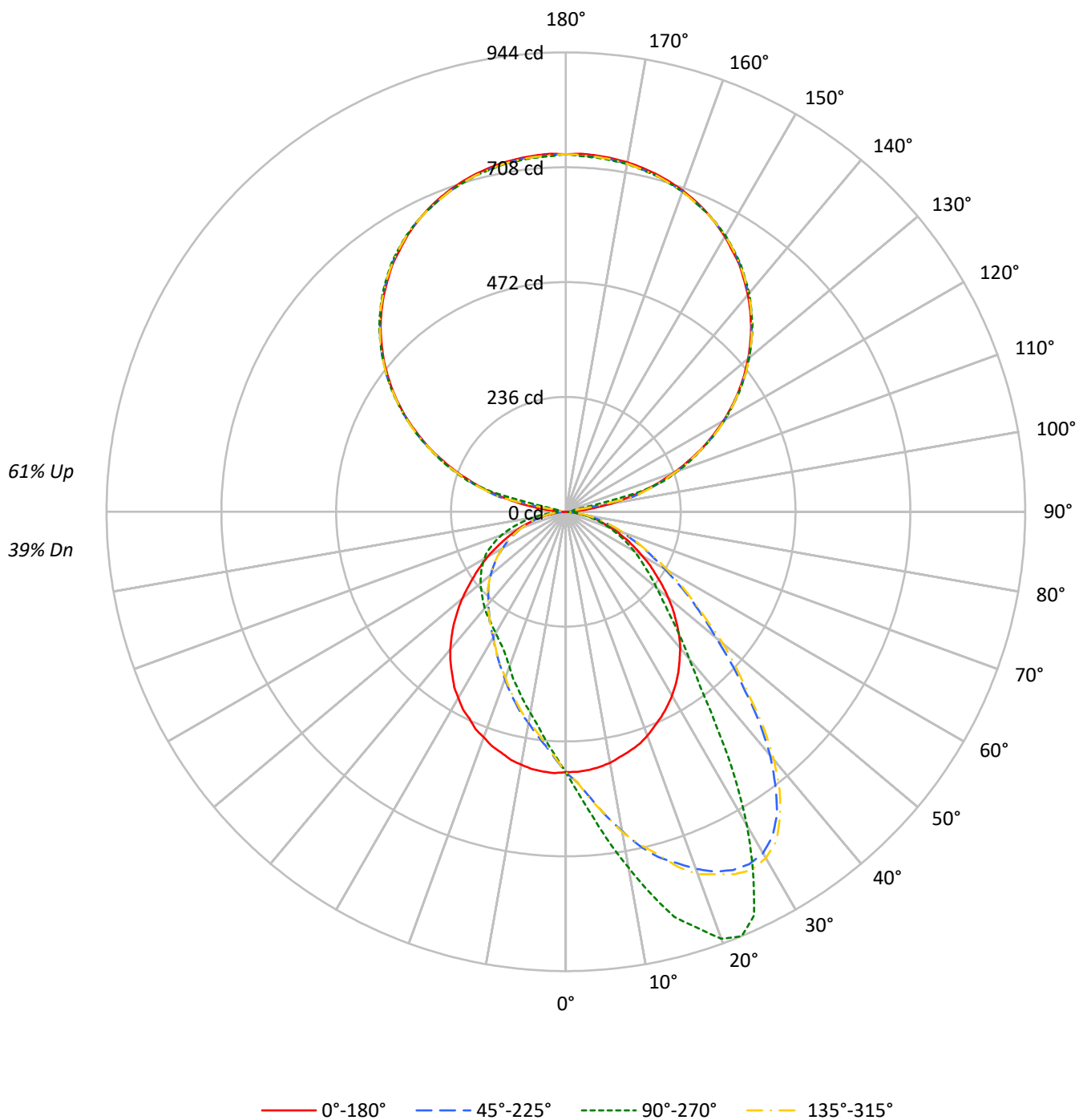
Lumens per Lamp: N/A
Luminaire Lumens: 3751.0 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				20
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39	
1	96	91	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34	
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28	
3	80	70	63	58	72	64	58	53	53	48	45	42	39	37	32	30	29	24	
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21	
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18	
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16	
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14	
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13	
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	19	16	14	12	
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4362	4362	4362	4362
5°	4351	5004	4376	3760
10°	4318	5838	4351	3299
15°	4266	6730	4296	2951
20°	4211	7298	4241	2646
25°	4130	7214	4170	2421
30°	4052	5963	4101	2305
35°	3941	4444	3985	2235
40°	3812	3347	3849	2200
45°	3615	2687	3660	2153
50°	3379	2264	3428	2132
55°	3102	1970	3152	2107
60°	2834	1735	2917	2072
65°	2580	1492	2606	1985
70°	2285	1228	2334	1828
75°	1991	943	1980	1552
80°	1567	620	1551	1178
85°	1033	279	968	688

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 5640 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	1.4
10°-20°	160.7	4.3
20°-30°	255.3	6.8
30°-40°	283.6	7.6
40°-50°	257.9	6.9
50°-60°	210.8	5.6
60°-70°	150.5	4.0
70°-80°	82.8	2.2
80°-90°	23.9	0.6
90°-100°	24.4	0.6
100°-110°	160.6	4.3
110°-120°	306.7	8.2
120°-130°	389.4	10.4
130°-140°	416.5	11.1
140°-150°	389.5	10.4
150°-160°	314.1	8.4
160°-170°	202.6	5.4
170°-180°	69.8	1.9
0°-30°	468.0	12.5
0°-40°	751.6	20.0
0°-60°	1220.4	32.5
0°-90°	1477.5	39.4
90°-120°	491.7	13.1
90°-150°	1687.0	45.0
90°-180°	2273.0	60.6
0°-180°	3751.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	535	535	535	535	535	
5°	533	628	536	472	533	51
15°	509	862	512	378	509	144
25°	464	915	469	307	464	214
35°	403	541	407	272	403	252
45°	321	304	325	243	321	248
55°	226	198	230	212	226	203
65°	141	128	142	170	141	139
75°	69	64	69	105	69	73
85°	14	13	13	33	14	17
90°	2	16	2	16	2	2
95°	30	16	30	16	30	37
105°	165	157	165	157	165	173
115°	309	311	309	311	309	304
125°	434	437	434	437	434	388
135°	538	542	538	542	538	415
145°	621	624	621	624	621	388
155°	681	680	681	680	681	314
165°	718	715	718	715	718	203
175°	735	730	735	730	735	70
180°	735	735	735	735	735	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	534.9	540.2	542.4	544.2	550.0	551.7	552.2	554.8	557.1	557.5	557.5
5°	532.7	541.1	547.7	553.9	563.3	567.2	572.1	577.4	584.5	589.0	591.2
7.5°	529.1	541.5	551.7	562.4	575.2	583.2	587.6	601.8	611.6	619.5	629.3
10°	523.8	539.8	554.4	569.9	588.1	597.8	607.6	624.9	638.6	654.1	666.5
12.5°	515.8	536.7	554.4	576.1	598.7	610.2	621.8	651.9	667.8	681.6	703.7
15°	508.7	529.6	554.8	577.0	604.9	622.2	639.0	658.5	683.8	713.5	734.8
17.5°	500.8	526.9	550.4	581.4	612.4	628.8	642.6	672.7	708.2	737.4	756.9
20°	489.7	516.3	547.3	580.1	616.9	629.7	647.9	688.2	720.1	748.9	780.8
22.5°	476.8	507.9	540.7	572.1	610.2	637.3	657.2	692.7	731.2	764.5	800.3
25°	464.4	498.1	526.9	569.9	610.2	628.4	651.0	693.1	735.2	775.5	812.3
27.5°	451.1	482.6	521.6	555.7	601.4	621.3	645.7	691.8	736.5	776.9	816.3
30°	436.5	470.2	502.5	542.9	587.2	612.9	635.5	685.6	731.2	773.3	810.1
32.5°	420.1	452.0	486.6	524.7	571.2	597.4	625.7	677.1	725.9	762.2	790.6
35°	402.8	435.2	465.3	504.3	552.2	578.3	605.8	662.5	710.8	740.5	756.9
37.5°	383.8	414.4	444.0	482.6	530.5	558.4	586.3	641.3	686.9	711.7	707.3
40°	365.6	393.1	420.6	456.9	507.0	536.7	561.0	616.4	656.3	667.0	652.3
42.5°	344.8	368.3	394.9	432.1	480.8	508.7	539.3	589.8	619.5	615.1	590.3
45°	321.3	342.1	368.7	403.7	453.4	482.2	507.9	555.7	577.4	566.4	521.2
47.5°	298.7	319.1	340.8	375.8	424.1	448.5	474.6	517.6	530.0	506.5	461.3
50°	274.3	291.2	313.8	347.0	392.2	417.9	439.6	474.2	478.6	449.8	402.8
52.5°	250.8	265.0	286.7	319.5	361.6	382.0	403.3	433.9	430.3	400.6	355.4
55°	226.0	239.3	259.2	289.4	326.6	346.1	364.3	391.3	383.8	353.2	313.8
57.5°	205.2	214.5	234.0	261.9	292.5	313.8	329.3	350.5	339.0	308.4	271.7
60°	181.3	192.8	209.2	231.8	261.9	276.1	289.8	304.0	296.0	266.8	234.0
62.5°	159.5	168.4	182.6	204.3	227.8	240.6	255.3	264.1	256.1	229.1	201.6
65°	140.9	148.0	159.1	176.8	199.4	210.1	218.5	226.9	220.3	195.0	175.0
67.5°	120.5	126.7	136.0	150.2	169.3	176.8	184.8	190.6	183.0	166.2	146.7
70°	102.4	106.8	115.7	126.3	139.6	146.7	153.3	159.1	152.4	138.3	123.6
72.5°	83.8	87.3	95.3	102.8	114.8	119.7	124.5	129.0	126.7	113.4	101.5
75°	69.1	70.5	75.8	82.0	89.5	94.8	98.4	101.0	99.3	88.6	81.1
77.5°	52.3	54.1	58.1	62.9	69.6	72.7	74.9	77.6	75.3	66.9	61.6
80°	38.1	38.6	40.8	45.2	49.6	50.1	52.3	55.8	54.5	48.7	44.8
82.5°	24.4	25.7	26.6	29.2	32.4	33.2	34.6	35.5	35.0	31.5	30.1
85°	14.2	14.2	15.1	16.8	17.7	19.1	19.5	19.9	20.8	18.6	17.3
87.5°	6.2	6.6	6.6	7.1	8.0	8.0	8.4	8.9	9.3	8.9	7.5
90°	1.6	3.0	4.3	5.7	7.0	7.7	8.2	9.2	10.1	11.1	12.1
92.5°	8.2	8.0	7.7	7.5	7.2	7.1	7.6	8.6	9.5	10.5	11.5
95°	30.2	26.0	21.9	17.7	13.6	11.5	11.6	11.7	11.8	12.0	12.1
97.5°	57.7	60.4	63.1	65.8	68.5	69.8	63.4	50.6	37.7	24.9	12.1
100°	90.1	92.3	94.5	96.7	98.9	100.0	91.6	74.7	57.9	41.0	24.2
102.5°	126.4	127.9	129.3	130.8	132.3	133.0	133.7	135.2	136.7	138.1	139.6
105°	165.4	166.1	166.9	167.6	168.3	168.7	169.0	169.6	170.3	170.9	171.5
107.5°	201.1	201.5	201.9	202.2	202.6	202.8	203.2	204.1	204.9	205.8	206.6
110°	237.4	237.8	238.1	238.5	238.8	239.0	239.4	240.1	240.8	241.6	242.3

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	272.6	273.3	274.1	274.8	275.5	275.9	276.0	276.3	276.5	276.8	277.0
115°	308.8	309.2	309.6	309.9	310.3	310.5	310.4	310.3	310.2	310.0	309.9
117.5°	341.3	341.8	342.3	342.8	343.3	343.5	343.7	344.0	344.4	344.7	345.1
120°	374.2	374.7	375.2	375.7	376.2	376.4	376.3	376.2	376.1	376.0	375.9
122.5°	405.0	405.2	405.5	405.7	406.0	406.1	406.2	406.5	406.7	407.0	407.2
125°	434.1	434.6	435.1	435.6	436.1	436.3	436.2	435.9	435.7	435.4	435.2
127.5°	462.2	462.3	462.4	462.5	462.6	462.7	463.0	463.6	464.3	464.9	465.5
130°	489.1	489.2	489.3	489.4	489.5	489.6	489.8	490.2	490.5	490.9	491.3
132.5°	513.8	514.0	514.3	514.5	514.8	514.9	515.1	515.6	516.1	516.6	517.1
135°	538.5	538.4	538.3	538.2	538.1	538.0	538.2	538.7	539.2	539.7	540.2
137.5°	560.5	560.5	560.5	560.5	560.5	560.5	560.8	561.4	562.1	562.7	563.3
140°	582.0	582.2	582.5	582.7	583.0	583.1	583.2	583.4	583.7	583.9	584.1
142.5°	601.2	601.7	602.2	602.7	603.2	603.4	603.5	603.6	603.7	603.8	603.9
145°	621.0	621.4	621.7	622.1	622.4	622.6	622.6	622.6	622.6	622.6	622.6
147.5°	636.4	637.1	637.9	638.6	639.3	639.7	639.6	639.5	639.4	639.2	639.1
150°	653.4	653.9	654.4	654.9	655.4	655.6	655.5	655.4	655.3	655.1	655.0
152.5°	667.7	668.1	668.4	668.8	669.1	669.3	669.2	668.9	668.7	668.4	668.2
155°	680.9	681.0	681.1	681.2	681.3	681.4	681.2	680.9	680.5	680.2	679.8
157.5°	692.4	692.4	692.4	692.4	692.4	692.4	692.2	691.7	691.2	690.7	690.2
160°	702.3	701.9	701.5	701.2	700.8	700.6	700.5	700.4	700.3	700.2	700.1
162.5°	711.1	710.6	710.1	709.6	709.1	708.9	708.8	708.7	708.6	708.4	708.3
165°	718.2	717.6	717.0	716.4	715.8	715.5	715.5	715.5	715.5	715.5	715.5
167.5°	724.3	723.7	723.1	722.4	721.8	721.5	721.4	721.3	721.2	721.1	721.0
170°	729.2	728.5	727.7	727.0	726.3	725.9	726.0	726.1	726.2	726.4	726.5
172.5°	732.5	731.8	731.0	730.3	729.6	729.2	729.3	729.4	729.5	729.7	729.8
175°	734.7	734.0	733.2	732.5	731.8	731.4	731.5	731.6	731.7	731.9	732.0
177.5°	736.4	735.5	734.7	733.8	732.9	732.5	732.6	732.9	733.1	733.4	733.6
180°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	558.8	566.8	570.3	571.2	576.1	573.0	574.3	573.9	577.4	577.9	577.9
5°	599.6	608.9	612.0	616.4	623.1	624.9	623.5	626.2	631.1	627.5	632.8
7.5°	642.6	652.8	659.9	669.6	671.8	677.6	681.1	684.2	685.1	685.6	686.5
10°	682.5	695.3	705.1	721.5	725.0	728.1	743.6	737.4	745.4	742.7	743.6
12.5°	714.8	740.1	748.1	775.5	778.2	788.8	787.9	797.7	799.5	803.0	799.5
15°	757.4	786.6	799.5	815.0	823.8	836.2	838.5	851.8	857.1	861.9	857.1
17.5°	796.4	811.9	844.7	857.1	862.8	869.5	886.3	891.2	899.2	896.1	904.9
20°	815.9	838.0	872.6	893.9	902.7	908.9	923.1	930.6	933.7	933.7	934.6
22.5°	833.1	865.0	890.8	915.1	923.1	927.5	936.0	941.7	943.0	943.9	944.8
25°	848.7	877.5	898.3	912.0	915.1	915.1	920.0	916.5	910.7	915.1	917.8
27.5°	848.7	869.0	878.3	883.2	883.2	871.3	864.2	849.5	837.1	833.6	841.6
30°	834.5	843.8	830.9	819.0	809.7	801.7	773.8	751.6	747.2	744.1	756.0
32.5°	801.7	789.7	764.5	729.9	716.1	698.0	676.3	659.4	649.2	645.7	643.0
35°	743.6	712.6	679.8	633.3	623.5	600.5	570.8	558.4	541.5	541.1	546.9
37.5°	680.2	632.4	596.9	552.6	538.9	514.5	486.6	473.7	462.2	453.4	464.0
40°	606.2	564.6	510.5	474.2	454.7	441.8	418.3	404.2	398.8	394.4	401.1
42.5°	537.1	491.5	449.4	412.1	396.2	381.6	366.0	352.3	348.3	347.9	352.8
45°	468.4	423.7	384.7	352.8	342.6	333.7	318.6	314.6	308.0	303.6	305.8
47.5°	413.5	367.4	335.0	310.7	301.8	294.3	284.5	277.9	272.1	270.3	273.0
50°	359.4	328.4	295.1	274.8	268.1	261.0	253.5	247.3	244.6	242.9	244.6
52.5°	316.0	282.7	260.1	243.7	237.1	231.8	226.5	223.8	220.3	221.1	222.9
55°	277.0	247.7	228.7	216.7	212.7	210.5	203.9	200.8	199.4	198.5	199.4
57.5°	240.2	218.9	204.7	194.5	189.2	187.9	182.6	182.6	181.3	179.9	180.4
60°	210.9	192.8	179.0	171.1	170.2	168.0	164.4	164.0	160.9	162.2	162.6
62.5°	181.3	166.6	157.3	152.4	149.3	148.5	146.2	145.8	144.5	144.9	144.0
65°	157.8	145.8	136.5	132.5	131.2	130.7	129.0	127.6	126.7	127.6	126.7
67.5°	134.3	126.3	119.2	115.2	113.4	113.0	111.7	110.8	111.2	109.9	110.8
70°	112.1	104.1	99.7	97.5	96.6	95.3	95.3	95.3	95.3	94.4	93.9
72.5°	94.4	86.4	83.3	82.0	81.1	80.7	79.3	79.8	79.3	78.9	80.7
75°	74.9	70.0	66.9	65.6	66.5	65.1	63.8	64.7	63.4	63.8	65.6
77.5°	56.7	54.5	52.7	51.8	51.0	50.1	50.1	49.2	49.2	49.2	49.2
80°	41.2	40.8	37.7	37.2	37.2	36.3	36.3	36.3	36.3	35.9	36.3
82.5°	27.5	27.0	26.1	25.7	24.8	25.3	25.3	24.4	24.4	23.9	24.4
85°	16.0	16.0	15.1	14.6	14.2	14.6	13.7	13.3	13.7	13.3	13.7
87.5°	7.5	6.6	7.1	6.6	5.8	6.2	5.3	5.8	5.3	4.9	5.8
90°	12.8	13.6	14.3	15.0	15.4	15.5	15.8	16.0	16.3	16.5	16.3
92.5°	12.2	13.0	13.7	14.4	14.8	14.8	14.8	14.8	14.8	14.8	14.8
95°	12.8	13.6	14.3	15.0	15.4	15.5	15.6	15.7	15.8	15.9	15.8
97.5°	12.7	13.3	13.9	14.5	14.8	14.9	15.0	15.1	15.3	15.4	15.3
100°	22.1	20.0	17.9	15.8	14.8	14.9	15.0	15.1	15.3	15.4	15.3
102.5°	112.1	84.6	57.1	29.6	15.9	15.9	15.9	15.9	15.9	15.9	15.9
105°	172.6	173.7	174.8	175.9	176.4	174.2	169.8	165.4	161.0	156.6	161.0
107.5°	207.2	207.8	208.5	209.1	209.4	209.6	210.1	210.6	211.1	211.6	211.1
110°	242.5	242.8	243.0	243.3	243.4	243.6	244.0	244.3	244.7	245.1	244.7

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	276.9	276.7	276.6	276.5	276.4	276.6	277.1	277.6	278.1	278.6	278.1
115°	310.1	310.4	310.6	310.9	311.0	311.0	311.0	311.0	311.0	311.0	311.0
117.5°	345.0	344.9	344.8	344.7	344.6	344.6	344.6	344.6	344.6	344.6	344.6
120°	376.1	376.4	376.6	376.9	377.0	376.9	376.6	376.4	376.1	375.9	376.1
122.5°	407.3	407.5	407.6	407.7	407.8	407.7	407.4	407.2	406.9	406.7	406.9
125°	435.6	436.0	436.3	436.7	436.9	437.0	437.1	437.2	437.3	437.4	437.3
127.5°	465.4	465.2	465.1	465.0	464.9	464.8	464.7	464.6	464.5	464.4	464.5
130°	491.4	491.5	491.6	491.7	491.8	491.8	491.8	491.8	491.8	491.8	491.8
132.5°	517.2	517.4	517.5	517.6	517.7	517.6	517.5	517.4	517.2	517.1	517.2
135°	540.4	540.7	540.9	541.2	541.3	541.4	541.7	541.9	542.2	542.4	542.2
137.5°	563.5	563.8	564.0	564.3	564.4	564.3	564.2	564.1	563.9	563.8	563.9
140°	584.5	584.9	585.2	585.6	585.8	585.9	586.0	586.1	586.2	586.3	586.2
142.5°	604.1	604.4	604.6	604.9	605.0	605.0	605.0	605.0	605.0	605.0	605.0
145°	622.7	622.9	623.0	623.1	623.2	623.3	623.6	623.8	624.1	624.3	624.1
147.5°	639.2	639.4	639.5	639.6	639.7	639.8	639.9	640.0	640.1	640.2	640.1
150°	655.0	655.0	655.0	655.0	655.0	655.1	655.2	655.3	655.5	655.6	655.5
152.5°	668.4	668.7	668.9	669.2	669.3	669.2	669.1	669.0	668.9	668.8	668.9
155°	680.3	680.8	681.3	681.8	682.0	681.8	681.4	681.1	680.7	680.3	680.7
157.5°	690.8	691.4	692.1	692.7	693.0	692.7	692.1	691.4	690.8	690.2	690.8
160°	700.8	701.6	702.3	703.0	703.4	703.0	702.3	701.6	700.8	700.1	700.8
162.5°	709.0	709.8	710.5	711.2	711.6	711.2	710.3	709.5	708.6	707.8	708.6
165°	716.5	717.5	718.4	719.4	719.9	719.3	718.2	717.1	716.0	714.9	716.0
167.5°	722.1	723.2	724.3	725.4	725.9	725.3	724.1	722.8	721.6	720.4	721.6
170°	727.5	728.5	729.4	730.4	730.9	730.3	729.1	727.8	726.6	725.4	726.6
172.5°	730.8	731.8	732.7	733.7	734.2	733.5	732.2	730.8	729.5	728.1	729.5
175°	733.1	734.2	735.3	736.4	736.9	736.2	734.7	733.2	731.8	730.3	731.8
177.5°	734.6	735.6	736.5	737.5	738.0	737.3	735.8	734.3	732.9	731.4	732.9
180°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	577.0	575.7	573.9	573.9	571.7	571.7	568.1	561.9	556.6	554.8	555.7
5°	626.2	626.6	624.0	621.8	617.8	614.7	608.9	597.8	594.3	587.2	582.3
7.5°	682.5	680.7	675.8	672.3	671.4	664.3	651.9	638.6	628.0	620.9	610.7
10°	745.8	738.7	731.7	729.4	724.1	712.2	698.0	683.4	668.7	653.2	635.9
12.5°	799.0	785.3	784.8	779.5	769.3	762.7	745.8	725.0	699.7	682.5	663.0
15°	856.2	843.3	832.7	822.9	818.1	798.6	784.4	758.2	728.1	709.5	696.2
17.5°	897.0	891.2	873.0	868.6	861.9	839.3	816.7	791.0	764.9	738.7	702.9
20°	929.7	926.2	914.2	908.0	897.4	879.7	852.2	822.5	792.4	755.1	721.5
22.5°	943.9	939.5	929.7	924.4	917.8	902.7	879.2	845.5	806.1	772.9	737.0
25°	916.0	924.0	921.3	919.1	916.5	907.6	889.9	860.2	821.6	783.9	739.2
27.5°	853.1	866.8	880.1	881.9	886.3	889.9	882.8	861.5	829.2	789.3	740.1
30°	768.4	774.6	801.7	809.7	815.9	838.5	851.8	846.4	821.6	785.7	740.5
32.5°	659.9	676.3	703.7	722.8	739.6	764.9	799.5	813.2	804.3	775.1	730.3
35°	557.1	576.6	608.5	632.8	649.7	685.6	726.3	756.0	767.1	752.5	712.6
37.5°	472.9	496.3	524.7	534.0	553.5	597.8	654.1	695.3	722.3	723.7	692.7
40°	409.5	421.4	444.0	458.2	477.3	514.5	569.5	624.0	664.7	678.5	662.1
42.5°	355.9	365.2	382.0	399.3	416.6	444.9	495.5	546.4	601.4	628.8	628.4
45°	313.3	323.1	334.6	348.8	360.7	391.3	431.2	483.5	530.9	573.4	584.1
47.5°	276.1	284.5	298.7	304.9	312.9	341.7	376.2	425.0	474.2	522.9	535.3
50°	248.6	255.7	265.5	269.4	278.3	299.6	327.9	367.4	421.9	466.6	489.7
52.5°	223.8	229.1	236.6	239.7	246.0	261.9	287.6	318.6	363.8	409.9	442.3
55°	202.5	206.1	211.4	214.9	219.4	233.5	252.6	280.5	319.5	359.4	390.9
57.5°	182.6	185.2	190.6	192.3	195.9	207.0	220.3	243.7	279.6	315.1	345.7
60°	164.0	165.7	168.8	172.8	175.5	183.0	195.4	214.9	243.7	276.1	300.9
62.5°	146.2	148.9	149.8	151.6	153.8	160.9	170.6	184.8	210.1	236.6	262.8
65°	128.1	130.3	132.1	132.5	134.7	140.0	148.9	161.3	177.7	200.8	225.1
67.5°	111.2	112.6	113.4	115.2	117.4	120.1	127.2	136.5	151.6	170.2	189.7
70°	95.7	95.7	97.1	97.5	100.2	103.3	106.4	115.2	128.5	143.6	156.9
72.5°	78.9	81.1	80.7	82.9	82.4	84.6	88.6	94.4	104.1	116.1	129.0
75°	64.3	65.6	65.6	65.6	66.5	68.2	70.5	75.8	83.3	93.1	100.6
77.5°	50.1	51.0	51.0	51.0	51.4	53.2	55.4	58.9	64.3	70.0	74.5
80°	35.9	36.8	36.8	37.7	37.7	38.1	40.3	42.1	44.8	49.2	53.6
82.5°	24.4	24.8	25.7	25.7	25.3	26.1	26.6	28.4	31.0	31.9	35.0
85°	13.3	13.7	14.2	14.2	14.6	15.5	15.1	16.8	16.8	18.6	19.5
87.5°	5.3	6.2	6.2	5.8	6.2	6.2	6.2	7.1	7.5	8.0	7.5
90°	16.0	15.8	15.5	15.4	15.0	14.3	13.6	12.8	12.1	11.1	10.1
92.5°	14.8	14.8	14.8	14.8	14.4	13.7	13.0	12.2	11.5	10.5	9.5
95°	15.7	15.6	15.5	15.4	15.0	14.3	13.6	12.8	12.1	12.0	11.8
97.5°	15.1	15.0	14.9	14.8	14.5	13.9	13.3	12.7	12.1	24.9	37.7
100°	15.1	15.0	14.9	14.8	15.8	17.9	20.0	22.1	24.2	41.0	57.9
102.5°	15.9	15.9	15.9	15.9	29.6	57.1	84.6	112.1	139.6	138.1	136.7
105°	165.4	169.8	174.2	176.4	175.9	174.8	173.7	172.6	171.5	170.9	170.3
107.5°	210.6	210.1	209.6	209.4	209.1	208.5	207.8	207.2	206.6	205.8	204.9
110°	244.3	244.0	243.6	243.4	243.3	243.0	242.8	242.5	242.3	241.6	240.8



TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	277.6	277.1	276.6	276.4	276.5	276.6	276.7	276.9	277.0	276.8	276.5
115°	311.0	311.0	311.0	311.0	310.9	310.6	310.4	310.1	309.9	310.0	310.2
117.5°	344.6	344.6	344.6	344.6	344.7	344.8	344.9	345.0	345.1	344.7	344.4
120°	376.4	376.6	376.9	377.0	376.9	376.6	376.4	376.1	375.9	376.0	376.1
122.5°	407.2	407.4	407.7	407.8	407.7	407.6	407.5	407.3	407.2	407.0	406.7
125°	437.2	437.1	437.0	436.9	436.7	436.3	436.0	435.6	435.2	435.4	435.7
127.5°	464.6	464.7	464.8	464.9	465.0	465.1	465.2	465.4	465.5	464.9	464.3
130°	491.8	491.8	491.8	491.8	491.7	491.6	491.5	491.4	491.3	490.9	490.5
132.5°	517.4	517.5	517.6	517.7	517.6	517.5	517.4	517.2	517.1	516.6	516.1
135°	541.9	541.7	541.4	541.3	541.2	540.9	540.7	540.4	540.2	539.7	539.2
137.5°	564.1	564.2	564.3	564.4	564.3	564.0	563.8	563.5	563.3	562.7	562.1
140°	586.1	586.0	585.9	585.8	585.6	585.2	584.9	584.5	584.1	583.9	583.7
142.5°	605.0	605.0	605.0	605.0	604.9	604.6	604.4	604.1	603.9	603.8	603.7
145°	623.8	623.6	623.3	623.2	623.1	623.0	622.9	622.7	622.6	622.6	622.6
147.5°	640.0	639.9	639.8	639.7	639.6	639.5	639.4	639.2	639.1	639.2	639.4
150°	655.3	655.2	655.1	655.0	655.0	655.0	655.0	655.0	655.0	655.1	655.3
152.5°	669.0	669.1	669.2	669.3	669.2	668.9	668.7	668.4	668.2	668.4	668.7
155°	681.1	681.4	681.8	682.0	681.8	681.3	680.8	680.3	679.8	680.2	680.5
157.5°	691.4	692.1	692.7	693.0	692.7	692.1	691.4	690.8	690.2	690.7	691.2
160°	701.6	702.3	703.0	703.4	703.0	702.3	701.6	700.8	700.1	700.2	700.3
162.5°	709.5	710.3	711.2	711.6	711.2	710.5	709.8	709.0	708.3	708.4	708.6
165°	717.1	718.2	719.3	719.9	719.4	718.4	717.5	716.5	715.5	715.5	715.5
167.5°	722.8	724.1	725.3	725.9	725.4	724.3	723.2	722.1	721.0	721.1	721.2
170°	727.8	729.1	730.3	730.9	730.4	729.4	728.5	727.5	726.5	726.4	726.2
172.5°	730.8	732.2	733.5	734.2	733.7	732.7	731.8	730.8	729.8	729.7	729.5
175°	733.2	734.7	736.2	736.9	736.4	735.3	734.2	733.1	732.0	731.9	731.7
177.5°	734.3	735.8	737.3	738.0	737.5	736.5	735.6	734.6	733.6	733.4	733.1
180°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	551.7	550.0	548.6	548.6	544.6	540.7	538.4	537.6	536.7	533.1	528.2
5°	574.3	568.6	564.6	560.6	553.9	546.9	539.8	535.8	530.0	522.0	516.3
7.5°	599.6	585.9	581.4	576.6	563.3	551.3	541.5	533.1	523.8	513.6	503.4
10°	620.9	606.2	596.5	588.1	570.8	554.8	540.2	527.8	515.8	502.5	490.1
12.5°	641.3	620.4	610.2	597.8	579.7	556.6	537.6	522.0	504.3	490.6	475.5
15°	669.6	634.6	617.8	609.8	585.4	558.4	535.3	512.3	497.7	476.8	463.5
17.5°	674.0	645.7	634.6	614.2	585.0	554.4	527.8	504.8	482.6	464.0	446.7
20°	689.6	652.3	634.6	621.8	583.2	552.2	522.9	493.2	472.0	452.0	432.5
22.5°	699.3	657.2	638.6	618.2	581.4	544.2	509.6	483.9	457.8	437.4	421.9
25°	696.6	654.5	633.7	614.7	569.9	532.7	501.7	468.9	444.5	422.3	401.9
27.5°	695.3	647.9	625.7	604.5	562.4	523.4	484.4	457.8	430.8	405.0	390.0
30°	691.8	639.5	613.8	590.7	546.9	506.1	472.9	441.8	414.8	391.3	371.4
32.5°	679.8	625.3	600.5	575.7	530.0	489.2	455.6	426.8	399.7	375.4	356.3
35°	663.9	608.5	581.4	555.3	509.6	468.4	437.4	407.3	382.0	358.5	340.3
37.5°	647.9	589.0	563.7	533.6	491.5	448.5	416.6	389.5	366.0	341.7	321.7
40°	624.9	565.9	538.0	512.3	463.1	422.8	393.5	369.2	346.1	323.1	306.2
42.5°	593.4	540.7	511.8	483.5	437.4	397.5	369.2	347.4	325.7	306.7	288.1
45°	561.5	510.1	484.4	459.1	409.0	371.4	345.2	325.3	307.1	286.3	271.2
47.5°	522.9	479.5	453.8	429.0	381.6	343.9	320.0	301.3	284.5	267.2	253.0
50°	483.5	445.8	422.3	396.6	351.4	317.3	293.8	278.3	264.6	248.2	236.6
52.5°	440.9	408.1	388.2	363.4	323.5	292.0	268.1	252.6	241.1	229.1	218.9
55°	395.7	371.8	350.5	330.6	292.9	264.6	243.3	229.6	221.6	210.5	201.6
57.5°	355.0	331.9	319.1	296.5	263.7	235.8	218.9	207.4	198.1	191.4	184.4
60°	312.4	293.8	279.6	263.2	234.4	210.9	193.2	186.6	176.8	171.9	168.8
62.5°	271.7	258.4	245.1	232.7	207.0	184.8	171.5	163.1	157.3	152.4	149.8
65°	233.1	220.7	211.4	200.3	179.0	161.3	148.9	142.3	136.5	135.2	132.1
67.5°	195.4	190.1	179.9	171.1	152.9	139.2	129.8	121.4	118.3	117.0	114.3
70°	163.5	157.3	149.3	141.8	128.1	116.1	107.7	104.6	100.2	99.7	96.6
72.5°	134.7	127.2	121.4	115.7	105.5	94.8	90.4	86.0	83.8	82.0	80.7
75°	106.8	101.5	97.5	92.6	83.8	76.7	70.5	68.7	67.4	66.9	66.0
77.5°	79.8	76.2	74.5	69.6	63.4	57.2	54.5	51.8	51.8	51.0	51.4
80°	56.7	54.5	52.3	49.6	44.3	41.7	39.4	37.7	36.8	36.3	36.8
82.5°	35.9	34.6	34.1	32.4	28.8	27.5	25.7	24.4	24.4	24.4	24.4
85°	19.9	19.9	19.9	17.3	16.0	14.6	13.7	13.3	13.3	13.3	13.7
87.5°	8.4	8.4	7.1	7.1	6.6	5.8	5.3	5.3	5.8	5.8	6.2
90°	9.2	8.2	7.7	7.0	5.7	4.3	3.0	1.6	3.0	4.3	5.7
92.5°	8.6	7.6	7.1	7.2	7.5	7.7	8.0	8.2	8.0	7.7	7.5
95°	11.7	11.6	11.5	13.6	17.7	21.9	26.0	30.2	26.0	21.9	17.7
97.5°	50.6	63.4	69.8	68.5	65.8	63.1	60.4	57.7	60.4	63.1	65.8
100°	74.7	91.6	100.0	98.9	96.7	94.5	92.3	90.1	92.3	94.5	96.7
102.5°	135.2	133.7	133.0	132.3	130.8	129.3	127.9	126.4	127.9	129.3	130.8
105°	169.6	169.0	168.7	168.3	167.6	166.9	166.1	165.4	166.1	166.9	167.6
107.5°	204.1	203.2	202.8	202.6	202.2	201.9	201.5	201.1	201.5	201.9	202.2
110°	240.1	239.4	239.0	238.8	238.5	238.1	237.8	237.4	237.8	238.1	238.5

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	276.3	276.0	275.9	275.5	274.8	274.1	273.3	272.6	273.3	274.1	274.8
115°	310.3	310.4	310.5	310.3	309.9	309.6	309.2	308.8	309.2	309.6	309.9
117.5°	344.0	343.7	343.5	343.3	342.8	342.3	341.8	341.3	341.8	342.3	342.8
120°	376.2	376.3	376.4	376.2	375.7	375.2	374.7	374.2	374.7	375.2	375.7
122.5°	406.5	406.2	406.1	406.0	405.7	405.5	405.2	405.0	405.2	405.5	405.7
125°	435.9	436.2	436.3	436.1	435.6	435.1	434.6	434.1	434.6	435.1	435.6
127.5°	463.6	463.0	462.7	462.6	462.5	462.4	462.3	462.2	462.3	462.4	462.5
130°	490.2	489.8	489.6	489.5	489.4	489.3	489.2	489.1	489.2	489.3	489.4
132.5°	515.6	515.1	514.9	514.8	514.5	514.3	514.0	513.8	514.0	514.3	514.5
135°	538.7	538.2	538.0	538.1	538.2	538.3	538.4	538.5	538.4	538.3	538.2
137.5°	561.4	560.8	560.5	560.5	560.5	560.5	560.5	560.5	560.5	560.5	560.5
140°	583.4	583.2	583.1	583.0	582.7	582.5	582.2	582.0	582.2	582.5	582.7
142.5°	603.6	603.5	603.4	603.2	602.7	602.2	601.7	601.2	601.7	602.2	602.7
145°	622.6	622.6	622.6	622.4	622.1	621.7	621.4	621.0	621.4	621.7	622.1
147.5°	639.5	639.6	639.7	639.3	638.6	637.9	637.1	636.4	637.1	637.9	638.6
150°	655.4	655.5	655.6	655.4	654.9	654.4	653.9	653.4	653.9	654.4	654.9
152.5°	668.9	669.2	669.3	669.1	668.8	668.4	668.1	667.7	668.1	668.4	668.8
155°	680.9	681.2	681.4	681.3	681.2	681.1	681.0	680.9	681.0	681.1	681.2
157.5°	691.7	692.2	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4	692.4
160°	700.4	700.5	700.6	700.8	701.2	701.5	701.9	702.3	701.9	701.5	701.2
162.5°	708.7	708.8	708.9	709.1	709.6	710.1	710.6	711.1	710.6	710.1	709.6
165°	715.5	715.5	715.5	715.8	716.4	717.0	717.6	718.2	717.6	717.0	716.4
167.5°	721.3	721.4	721.5	721.8	722.4	723.1	723.7	724.3	723.7	723.1	722.4
170°	726.1	726.0	725.9	726.3	727.0	727.7	728.5	729.2	728.5	727.7	727.0
172.5°	729.4	729.3	729.2	729.6	730.3	731.0	731.8	732.5	731.8	731.0	730.3
175°	731.6	731.5	731.4	731.8	732.5	733.2	734.0	734.7	734.0	733.2	732.5
177.5°	732.9	732.6	732.5	732.9	733.8	734.7	735.5	736.4	735.5	734.7	733.8
180°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	526.9	525.1	526.0	521.6	517.6	511.8	507.0	506.1	505.2	507.9	506.1
5°	511.8	509.6	507.4	502.1	494.1	489.2	482.2	481.7	479.1	475.1	476.0
7.5°	495.5	494.1	491.0	482.6	475.5	467.1	461.3	456.5	454.2	450.7	449.4
10°	482.2	477.3	474.6	465.3	456.9	448.0	440.5	437.0	433.0	429.9	427.6
12.5°	464.0	462.7	455.1	447.6	440.5	430.3	424.5	414.4	409.0	411.7	410.8
15°	452.0	445.8	444.0	433.4	421.4	414.8	404.2	397.5	395.3	391.3	386.4
17.5°	436.1	432.1	425.9	416.1	402.4	393.1	385.5	379.3	376.7	371.4	367.4
20°	421.0	414.4	409.5	400.6	387.3	375.4	366.0	362.1	355.4	351.0	348.8
22.5°	407.3	402.4	395.3	382.0	370.5	359.0	347.9	342.1	335.9	333.3	329.7
25°	390.4	382.4	377.6	362.9	350.5	341.2	331.0	323.5	320.0	315.5	314.6
27.5°	374.0	366.5	360.7	347.9	332.8	320.8	314.6	309.3	303.1	303.1	300.9
30°	357.6	352.3	343.4	331.0	316.9	305.3	298.2	293.4	291.2	289.4	288.9
32.5°	341.2	334.1	328.8	312.0	301.3	290.7	285.4	281.4	278.7	278.3	278.7
35°	324.4	316.4	311.1	296.0	285.4	275.6	273.4	269.9	268.6	268.1	270.3
37.5°	306.7	300.5	293.8	281.4	269.4	263.7	259.2	257.9	257.5	260.1	261.0
40°	290.3	285.0	278.7	265.5	256.6	250.4	248.2	246.8	248.6	251.3	252.6
42.5°	274.8	267.2	262.4	250.4	242.4	238.9	236.2	236.2	238.0	241.1	243.3
45°	258.4	252.6	247.7	237.1	230.0	226.0	225.6	226.0	228.2	230.4	233.1
47.5°	242.4	236.6	231.3	222.5	216.3	214.0	213.6	214.0	217.6	220.7	223.8
50°	227.8	221.6	216.7	208.3	203.4	200.8	201.2	203.4	206.1	210.5	214.5
52.5°	210.5	206.1	201.6	194.1	189.7	187.9	189.2	191.0	195.9	199.0	203.9
55°	193.7	189.7	186.1	180.4	176.8	175.5	176.4	179.0	183.0	188.3	194.1
57.5°	178.2	173.7	170.2	166.2	162.2	162.6	163.1	166.6	171.5	176.4	183.0
60°	160.9	158.2	155.1	150.2	148.5	148.5	149.8	153.8	158.2	166.2	171.9
62.5°	145.4	141.8	139.6	136.5	133.8	134.3	137.4	140.9	146.2	152.9	160.4
65°	129.4	125.4	123.6	121.0	120.1	120.5	122.8	128.1	133.8	139.6	146.7
67.5°	111.7	110.3	108.6	105.9	106.8	107.2	109.5	113.9	120.1	125.9	133.8
70°	96.6	93.9	93.5	91.3	91.3	92.6	97.1	100.2	105.9	112.1	120.5
72.5°	80.7	78.4	78.4	76.7	78.0	79.3	81.5	86.0	91.3	97.5	104.6
75°	64.3	63.4	64.3	63.4	63.4	65.6	68.2	71.8	77.6	84.2	90.0
77.5°	49.6	49.6	49.2	50.5	50.5	51.8	55.4	58.9	63.4	68.7	74.9
80°	36.3	36.3	36.3	37.7	39.0	39.0	41.2	45.6	49.6	53.2	58.9
82.5°	24.8	24.8	24.8	25.7	27.5	27.5	30.1	32.8	37.2	40.3	43.0
85°	15.1	15.1	14.6	15.5	16.0	17.3	19.5	21.3	23.5	26.1	28.8
87.5°	6.6	6.6	7.1	7.5	8.0	8.9	9.7	10.6	12.9	13.7	15.1
90°	7.0	7.7	8.2	9.2	10.1	11.1	12.1	12.8	13.6	14.3	15.0
92.5°	7.2	7.1	7.6	8.6	9.5	10.5	11.5	12.2	13.0	13.7	14.4
95°	13.6	11.5	11.6	11.7	11.8	12.0	12.1	12.8	13.6	14.3	15.0
97.5°	68.5	69.8	63.4	50.6	37.7	24.9	12.1	12.7	13.3	13.9	14.5
100°	98.9	100.0	91.6	74.7	57.9	41.0	24.2	22.1	20.0	17.9	15.8
102.5°	132.3	133.0	133.7	135.2	136.7	138.1	139.6	112.1	84.6	57.1	29.6
105°	168.3	168.7	169.0	169.6	170.3	170.9	171.5	172.6	173.7	174.8	175.9
107.5°	202.6	202.8	203.2	204.1	204.9	205.8	206.6	207.2	207.8	208.5	209.1
110°	238.8	239.0	239.4	240.1	240.8	241.6	242.3	242.5	242.8	243.0	243.3

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	275.5	275.9	276.0	276.3	276.5	276.8	277.0	276.9	276.7	276.6	276.5
115°	310.3	310.5	310.4	310.3	310.2	310.0	309.9	310.1	310.4	310.6	310.9
117.5°	343.3	343.5	343.7	344.0	344.4	344.7	345.1	345.0	344.9	344.8	344.7
120°	376.2	376.4	376.3	376.2	376.1	376.0	375.9	376.1	376.4	376.6	376.9
122.5°	406.0	406.1	406.2	406.5	406.7	407.0	407.2	407.3	407.5	407.6	407.7
125°	436.1	436.3	436.2	435.9	435.7	435.4	435.2	435.6	436.0	436.3	436.7
127.5°	462.6	462.7	463.0	463.6	464.3	464.9	465.5	465.4	465.2	465.1	465.0
130°	489.5	489.6	489.8	490.2	490.5	490.9	491.3	491.4	491.5	491.6	491.7
132.5°	514.8	514.9	515.1	515.6	516.1	516.6	517.1	517.2	517.4	517.5	517.6
135°	538.1	538.0	538.2	538.7	539.2	539.7	540.2	540.4	540.7	540.9	541.2
137.5°	560.5	560.5	560.8	561.4	562.1	562.7	563.3	563.5	563.8	564.0	564.3
140°	583.0	583.1	583.2	583.4	583.7	583.9	584.1	584.5	584.9	585.2	585.6
142.5°	603.2	603.4	603.5	603.6	603.7	603.8	603.9	604.1	604.4	604.6	604.9
145°	622.4	622.6	622.6	622.6	622.6	622.6	622.6	622.7	622.9	623.0	623.1
147.5°	639.3	639.7	639.6	639.5	639.4	639.2	639.1	639.2	639.4	639.5	639.6
150°	655.4	655.6	655.5	655.4	655.3	655.1	655.0	655.0	655.0	655.0	655.0
152.5°	669.1	669.3	669.2	668.9	668.7	668.4	668.2	668.4	668.7	668.9	669.2
155°	681.3	681.4	681.2	680.9	680.5	680.2	679.8	680.3	680.8	681.3	681.8
157.5°	692.4	692.4	692.2	691.7	691.2	690.7	690.2	690.8	691.4	692.1	692.7
160°	700.8	700.6	700.5	700.4	700.3	700.2	700.1	700.8	701.6	702.3	703.0
162.5°	709.1	708.9	708.8	708.7	708.6	708.4	708.3	709.0	709.8	710.5	711.2
165°	715.8	715.5	715.5	715.5	715.5	715.5	715.5	716.5	717.5	718.4	719.4
167.5°	721.8	721.5	721.4	721.3	721.2	721.1	721.0	722.1	723.2	724.3	725.4
170°	726.3	725.9	726.0	726.1	726.2	726.4	726.5	727.5	728.5	729.4	730.4
172.5°	729.6	729.2	729.3	729.4	729.5	729.7	729.8	730.8	731.8	732.7	733.7
175°	731.8	731.4	731.5	731.6	731.7	731.9	732.0	733.1	734.2	735.3	736.4
177.5°	732.9	732.5	732.6	732.9	733.1	733.4	733.6	734.6	735.6	736.5	737.5
180°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	504.8	504.3	502.1	503.0	500.3	501.2	502.5	503.0	504.8	503.4	503.0
5°	473.7	472.9	471.5	470.2	469.7	471.5	468.4	469.3	470.2	471.5	473.3
7.5°	448.5	448.0	446.7	444.5	443.6	442.7	443.2	446.3	445.8	445.4	448.5
10°	425.4	425.9	423.2	422.8	420.1	419.7	420.1	421.0	422.3	424.1	424.5
12.5°	401.5	407.3	402.4	400.6	396.6	398.8	399.7	395.7	398.0	399.3	405.9
15°	386.4	383.8	380.7	380.7	378.9	378.0	375.8	378.9	380.7	383.3	382.4
17.5°	365.6	361.2	359.4	357.6	358.1	359.8	355.0	362.1	362.1	363.4	361.2
20°	347.4	343.9	341.7	340.8	339.5	338.6	338.1	339.9	342.6	343.4	345.7
22.5°	328.4	328.4	324.8	323.5	322.6	321.3	323.5	322.2	323.9	325.7	329.3
25°	312.4	312.4	311.1	309.3	308.0	307.1	308.4	308.0	309.3	311.5	312.4
27.5°	299.6	298.2	297.8	297.4	296.9	297.4	296.9	298.2	299.6	300.0	299.1
30°	288.5	287.2	287.6	287.6	288.1	287.6	287.2	288.5	288.9	288.1	288.5
32.5°	278.3	278.3	279.2	279.6	279.6	280.1	280.5	279.6	280.1	278.7	279.2
35°	269.9	270.8	271.7	272.1	272.5	272.1	273.0	272.5	271.7	270.8	270.3
37.5°	261.5	262.4	264.1	264.6	265.9	266.3	265.5	265.5	265.0	263.2	262.4
40°	252.6	253.5	255.7	257.0	257.9	259.2	258.4	258.4	256.6	254.8	253.5
42.5°	244.2	246.0	248.2	249.5	251.3	251.3	251.3	250.4	248.2	246.4	245.1
45°	235.8	236.2	239.3	241.5	243.3	243.3	243.3	242.0	240.6	237.1	235.3
47.5°	226.5	227.8	231.3	233.5	235.3	235.8	235.8	234.4	231.8	228.7	226.5
50°	216.3	218.5	222.5	225.6	227.8	228.7	227.3	226.5	223.4	219.8	217.1
52.5°	206.5	209.2	214.0	216.7	219.8	220.3	219.8	218.5	214.9	210.1	207.8
55°	196.8	199.0	204.3	208.7	211.4	212.3	211.4	209.2	204.7	199.9	197.6
57.5°	186.1	189.2	195.0	199.4	202.5	203.0	202.1	199.9	196.3	190.1	187.0
60°	175.0	179.0	184.8	189.2	193.2	193.7	192.8	189.7	185.2	179.0	176.4
62.5°	164.0	167.1	173.7	178.6	181.7	183.9	182.1	179.0	174.6	168.4	164.4
65°	151.1	155.5	161.3	165.7	169.3	169.7	168.8	166.2	161.3	154.7	151.6
67.5°	138.7	141.8	147.6	153.3	154.7	156.0	154.7	152.0	148.0	142.3	137.8
70°	123.6	126.3	133.4	137.4	139.2	140.5	139.6	136.9	133.4	128.1	124.5
72.5°	108.6	110.8	117.4	120.5	124.1	123.6	123.2	121.4	116.6	113.0	110.8
75°	92.6	95.3	99.7	103.7	105.0	105.0	105.0	103.7	100.6	94.8	92.6
77.5°	78.0	79.3	82.9	85.1	86.4	86.9	86.4	84.2	82.4	78.4	77.1
80°	59.8	63.4	66.0	66.5	68.2	68.2	68.2	67.4	65.6	61.6	61.2
82.5°	45.2	46.1	48.7	50.1	51.0	50.5	50.5	48.7	48.3	46.1	45.2
85°	30.6	31.9	31.5	33.2	33.7	32.8	32.8	33.7	31.5	31.9	30.6
87.5°	16.8	16.8	17.7	17.3	19.1	19.1	18.2	18.6	17.7	17.3	16.8
90°	15.4	15.5	15.8	16.0	16.3	16.5	16.3	16.0	15.8	15.5	15.4
92.5°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
95°	15.4	15.5	15.6	15.7	15.8	15.9	15.8	15.7	15.6	15.5	15.4
97.5°	14.8	14.9	15.0	15.1	15.3	15.4	15.3	15.1	15.0	14.9	14.8
100°	14.8	14.9	15.0	15.1	15.3	15.4	15.3	15.1	15.0	14.9	14.8
102.5°	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
105°	176.4	174.2	169.8	165.4	161.0	156.6	161.0	165.4	169.8	174.2	176.4
107.5°	209.4	209.6	210.1	210.6	211.1	211.6	211.1	210.6	210.1	209.6	209.4
110°	243.4	243.6	244.0	244.3	244.7	245.1	244.7	244.3	244.0	243.6	243.4

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	276.4	276.6	277.1	277.6	278.1	278.6	278.1	277.6	277.1	276.6	276.4
115°	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0
117.5°	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6
120°	377.0	376.9	376.6	376.4	376.1	375.9	376.1	376.4	376.6	376.9	377.0
122.5°	407.8	407.7	407.4	407.2	406.9	406.7	406.9	407.2	407.4	407.7	407.8
125°	436.9	437.0	437.1	437.2	437.3	437.4	437.3	437.2	437.1	437.0	436.9
127.5°	464.9	464.8	464.7	464.6	464.5	464.4	464.5	464.6	464.7	464.8	464.9
130°	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8
132.5°	517.7	517.6	517.5	517.4	517.2	517.1	517.2	517.4	517.5	517.6	517.7
135°	541.3	541.4	541.7	541.9	542.2	542.4	542.2	541.9	541.7	541.4	541.3
137.5°	564.4	564.3	564.2	564.1	563.9	563.8	563.9	564.1	564.2	564.3	564.4
140°	585.8	585.9	586.0	586.1	586.2	586.3	586.2	586.1	586.0	585.9	585.8
142.5°	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0	605.0
145°	623.2	623.3	623.6	623.8	624.1	624.3	624.1	623.8	623.6	623.3	623.2
147.5°	639.7	639.8	639.9	640.0	640.1	640.2	640.1	640.0	639.9	639.8	639.7
150°	655.0	655.1	655.2	655.3	655.5	655.6	655.5	655.3	655.2	655.1	655.0
152.5°	669.3	669.2	669.1	669.0	668.9	668.8	668.9	669.0	669.1	669.2	669.3
155°	682.0	681.8	681.4	681.1	680.7	680.3	680.7	681.1	681.4	681.8	682.0
157.5°	693.0	692.7	692.1	691.4	690.8	690.2	690.8	691.4	692.1	692.7	693.0
160°	703.4	703.0	702.3	701.6	700.8	700.1	700.8	701.6	702.3	703.0	703.4
162.5°	711.6	711.2	710.3	709.5	708.6	707.8	708.6	709.5	710.3	711.2	711.6
165°	719.9	719.3	718.2	717.1	716.0	714.9	716.0	717.1	718.2	719.3	719.9
167.5°	725.9	725.3	724.1	722.8	721.6	720.4	721.6	722.8	724.1	725.3	725.9
170°	730.9	730.3	729.1	727.8	726.6	725.4	726.6	727.8	729.1	730.3	730.9
172.5°	734.2	733.5	732.2	730.8	729.5	728.1	729.5	730.8	732.2	733.5	734.2
175°	736.9	736.2	734.7	733.2	731.8	730.3	731.8	733.2	734.7	736.2	736.9
177.5°	738.0	737.3	735.8	734.3	732.9	731.4	732.9	734.3	735.8	737.3	738.0
180°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7

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CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9	534.9
2.5°	503.0	505.6	503.0	504.8	505.6	507.9	508.7	512.7	514.1	517.2	517.2
5°	472.9	474.2	474.6	476.4	478.2	482.6	485.7	491.5	498.1	499.0	503.0
7.5°	448.5	450.7	454.2	452.9	456.0	462.7	466.6	473.7	480.4	483.9	488.8
10°	426.8	429.4	430.8	432.1	437.8	443.6	449.8	454.7	463.5	468.9	472.9
12.5°	409.0	406.8	409.5	414.4	421.0	424.5	433.0	440.5	447.1	452.9	456.5
15°	386.0	387.8	390.4	398.8	400.6	409.5	412.6	421.0	433.4	438.7	443.2
17.5°	363.8	369.6	374.9	378.0	383.3	390.4	399.3	408.6	416.6	422.8	428.1
20°	346.1	351.9	355.0	357.2	362.5	372.3	380.7	392.2	402.4	407.3	414.4
22.5°	331.9	331.9	336.4	343.0	346.1	355.4	362.5	374.9	386.0	392.2	398.8
25°	314.2	316.9	320.4	326.2	330.6	338.1	348.3	359.0	370.9	376.2	384.7
27.5°	299.6	302.7	307.6	308.9	313.3	320.0	330.6	342.1	354.5	360.3	367.4
30°	288.5	290.3	292.0	294.7	298.7	304.5	313.3	323.5	338.6	343.0	351.9
32.5°	278.7	279.6	280.5	282.7	285.0	290.7	297.8	308.9	321.3	327.9	335.9
35°	269.9	269.0	269.4	270.8	273.0	275.2	282.7	292.0	303.6	311.5	317.7
37.5°	261.5	259.7	259.2	259.2	260.1	262.8	268.6	276.5	288.9	295.6	301.8
40°	252.2	250.4	249.5	249.1	248.6	250.4	254.8	262.8	272.5	278.7	285.8
42.5°	243.3	241.5	239.3	238.9	238.0	238.9	242.0	249.5	257.9	264.1	269.9
45°	234.4	231.3	228.7	226.9	227.3	226.0	228.2	234.0	243.7	247.7	253.5
47.5°	224.7	221.1	217.6	215.8	214.0	214.9	215.8	220.7	229.1	233.1	238.9
50°	215.4	210.5	206.5	204.3	203.0	202.1	203.0	207.8	214.0	217.6	222.5
52.5°	204.7	199.9	195.9	192.3	190.6	189.2	189.7	194.1	199.9	203.4	208.3
55°	195.0	188.8	183.5	179.0	177.7	177.3	176.8	179.9	184.8	188.3	192.3
57.5°	183.9	177.7	171.9	166.6	164.0	163.5	163.5	164.4	170.6	173.3	175.5
60°	172.8	166.2	160.0	155.1	151.1	149.8	149.3	151.1	154.2	156.9	160.0
62.5°	160.4	153.8	146.2	141.8	137.8	134.3	135.6	136.0	140.5	141.8	144.5
65°	148.5	140.9	134.7	127.6	123.2	121.0	120.1	121.0	124.5	125.0	126.7
67.5°	134.7	127.6	120.1	115.2	111.2	107.2	106.4	106.4	108.1	109.5	111.7
70°	121.4	114.3	105.9	100.6	96.6	93.1	91.7	91.3	92.6	93.5	95.7
72.5°	105.9	98.8	92.6	86.9	82.0	79.3	78.0	77.1	78.4	79.3	79.8
75°	89.5	83.8	77.6	71.8	68.7	66.0	64.3	62.9	63.8	63.8	63.8
77.5°	74.0	68.2	63.4	59.4	55.4	52.3	51.0	49.6	50.1	50.1	51.0
80°	57.6	53.6	49.6	46.1	42.5	39.9	39.0	37.7	36.8	36.3	36.3
82.5°	42.5	39.4	35.9	32.8	31.0	28.4	27.5	25.7	25.7	25.3	25.3
85°	28.4	26.6	23.0	20.8	19.5	18.2	17.3	16.4	15.1	15.1	14.6
87.5°	15.1	14.2	13.3	10.6	10.6	9.3	8.9	8.4	7.1	7.5	7.5
90°	15.0	14.3	13.6	12.8	12.1	11.1	10.1	9.2	8.2	7.7	7.0
92.5°	14.4	13.7	13.0	12.2	11.5	10.5	9.5	8.6	7.6	7.1	7.2
95°	15.0	14.3	13.6	12.8	12.1	12.0	11.8	11.7	11.6	11.5	13.6
97.5°	14.5	13.9	13.3	12.7	12.1	24.9	37.7	50.6	63.4	69.8	68.5
100°	15.8	17.9	20.0	22.1	24.2	41.0	57.9	74.7	91.6	100.0	98.9
102.5°	29.6	57.1	84.6	112.1	139.6	138.1	136.7	135.2	133.7	133.0	132.3
105°	175.9	174.8	173.7	172.6	171.5	170.9	170.3	169.6	169.0	168.7	168.3
107.5°	209.1	208.5	207.8	207.2	206.6	205.8	204.9	204.1	203.2	202.8	202.6
110°	243.3	243.0	242.8	242.5	242.3	241.6	240.8	240.1	239.4	239.0	238.8



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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	276.5	276.6	276.7	276.9	277.0	276.8	276.5	276.3	276.0	275.9	275.5
115°	310.9	310.6	310.4	310.1	309.9	310.0	310.2	310.3	310.4	310.5	310.3
117.5°	344.7	344.8	344.9	345.0	345.1	344.7	344.4	344.0	343.7	343.5	343.3
120°	376.9	376.6	376.4	376.1	375.9	376.0	376.1	376.2	376.3	376.4	376.2
122.5°	407.7	407.6	407.5	407.3	407.2	407.0	406.7	406.5	406.2	406.1	406.0
125°	436.7	436.3	436.0	435.6	435.2	435.4	435.7	435.9	436.2	436.3	436.1
127.5°	465.0	465.1	465.2	465.4	465.5	464.9	464.3	463.6	463.0	462.7	462.6
130°	491.7	491.6	491.5	491.4	491.3	490.9	490.5	490.2	489.8	489.6	489.5
132.5°	517.6	517.5	517.4	517.2	517.1	516.6	516.1	515.6	515.1	514.9	514.8
135°	541.2	540.9	540.7	540.4	540.2	539.7	539.2	538.7	538.2	538.0	538.1
137.5°	564.3	564.0	563.8	563.5	563.3	562.7	562.1	561.4	560.8	560.5	560.5
140°	585.6	585.2	584.9	584.5	584.1	583.9	583.7	583.4	583.2	583.1	583.0
142.5°	604.9	604.6	604.4	604.1	603.9	603.8	603.7	603.6	603.5	603.4	603.2
145°	623.1	623.0	622.9	622.7	622.6	622.6	622.6	622.6	622.6	622.6	622.4
147.5°	639.6	639.5	639.4	639.2	639.1	639.2	639.4	639.5	639.6	639.7	639.3
150°	655.0	655.0	655.0	655.0	655.0	655.1	655.3	655.4	655.5	655.6	655.4
152.5°	669.2	668.9	668.7	668.4	668.2	668.4	668.7	668.9	669.2	669.3	669.1
155°	681.8	681.3	680.8	680.3	679.8	680.2	680.5	680.9	681.2	681.4	681.3
157.5°	692.7	692.1	691.4	690.8	690.2	690.7	691.2	691.7	692.2	692.4	692.4
160°	703.0	702.3	701.6	700.8	700.1	700.2	700.3	700.4	700.5	700.6	700.8
162.5°	711.2	710.5	709.8	709.0	708.3	708.4	708.6	708.7	708.8	708.9	709.1
165°	719.4	718.4	717.5	716.5	715.5	715.5	715.5	715.5	715.5	715.5	715.8
167.5°	725.4	724.3	723.2	722.1	721.0	721.1	721.2	721.3	721.4	721.5	721.8
170°	730.4	729.4	728.5	727.5	726.5	726.4	726.2	726.1	726.0	725.9	726.3
172.5°	733.7	732.7	731.8	730.8	729.8	729.7	729.5	729.4	729.3	729.2	729.6
175°	736.4	735.3	734.2	733.1	732.0	731.9	731.7	731.6	731.5	731.4	731.8
177.5°	737.5	736.5	735.6	734.6	733.6	733.4	733.1	732.9	732.6	732.5	732.9
180°	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7	734.7

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	534.9	534.9	534.9	534.9
2.5°	520.3	524.7	528.7	534.9
5°	508.7	515.0	523.4	532.7
7.5°	495.5	505.2	516.3	529.1
10°	483.0	494.1	508.3	523.8
12.5°	470.2	483.5	499.0	515.8
15°	455.6	468.9	486.1	508.7
17.5°	442.3	458.2	476.8	500.8
20°	426.8	441.8	462.2	489.7
22.5°	413.0	430.3	452.9	476.8
25°	398.0	413.0	435.6	464.4
27.5°	382.9	401.5	423.2	451.1
30°	368.3	383.8	407.3	436.5
32.5°	352.3	370.9	392.6	420.1
35°	335.0	352.8	373.1	402.8
37.5°	319.5	336.8	357.6	383.8
40°	302.2	320.4	339.5	365.6
42.5°	285.4	301.8	320.8	344.8
45°	269.0	283.2	300.5	321.3
47.5°	252.2	264.1	280.1	298.7
50°	234.0	246.8	258.8	274.3
52.5°	217.1	228.2	238.0	250.8
55°	200.8	208.3	216.3	226.0
57.5°	183.5	189.2	195.0	205.2
60°	166.2	171.5	174.6	181.3
62.5°	149.3	151.6	155.5	159.5
65°	130.7	133.8	136.0	140.9
67.5°	113.9	115.2	117.4	120.5
70°	96.2	99.3	100.2	102.4
72.5°	81.1	82.4	83.3	83.8
75°	64.3	65.6	66.5	69.1
77.5°	50.5	50.1	51.8	52.3
80°	37.2	35.9	36.3	38.1
82.5°	24.4	24.8	24.4	24.4
85°	15.1	14.6	13.7	14.2
87.5°	6.6	6.6	6.2	6.2
90°	5.7	4.3	3.0	1.6
92.5°	7.5	7.7	8.0	8.2
95°	17.7	21.9	26.0	30.2
97.5°	65.8	63.1	60.4	57.7
100°	96.7	94.5	92.3	90.1
102.5°	130.8	129.3	127.9	126.4
105°	167.6	166.9	166.1	165.4
107.5°	202.2	201.9	201.5	201.1
110°	238.5	238.1	237.8	237.4

TEST NUMBER: P1013034

CATALOG NUMBER: S124DIP-B350D590UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	274.8	274.1	273.3	272.6
115°	309.9	309.6	309.2	308.8
117.5°	342.8	342.3	341.8	341.3
120°	375.7	375.2	374.7	374.2
122.5°	405.7	405.5	405.2	405.0
125°	435.6	435.1	434.6	434.1
127.5°	462.5	462.4	462.3	462.2
130°	489.4	489.3	489.2	489.1
132.5°	514.5	514.3	514.0	513.8
135°	538.2	538.3	538.4	538.5
137.5°	560.5	560.5	560.5	560.5
140°	582.7	582.5	582.2	582.0
142.5°	602.7	602.2	601.7	601.2
145°	622.1	621.7	621.4	621.0
147.5°	638.6	637.9	637.1	636.4
150°	654.9	654.4	653.9	653.4
152.5°	668.8	668.4	668.1	667.7
155°	681.2	681.1	681.0	680.9
157.5°	692.4	692.4	692.4	692.4
160°	701.2	701.5	701.9	702.3
162.5°	709.6	710.1	710.6	711.1
165°	716.4	717.0	717.6	718.2
167.5°	722.4	723.1	723.7	724.3
170°	727.0	727.7	728.5	729.2
172.5°	730.3	731.0	731.8	732.5
175°	732.5	733.2	734.0	734.7
177.5°	733.8	734.7	735.5	736.4
180°	734.7	734.7	734.7	734.7

(END OF REPORT)