

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332500-927

Luminaire Tested: **S124DIP-S350D590U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332500-927  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DIP-S350D590U927-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2871.3 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

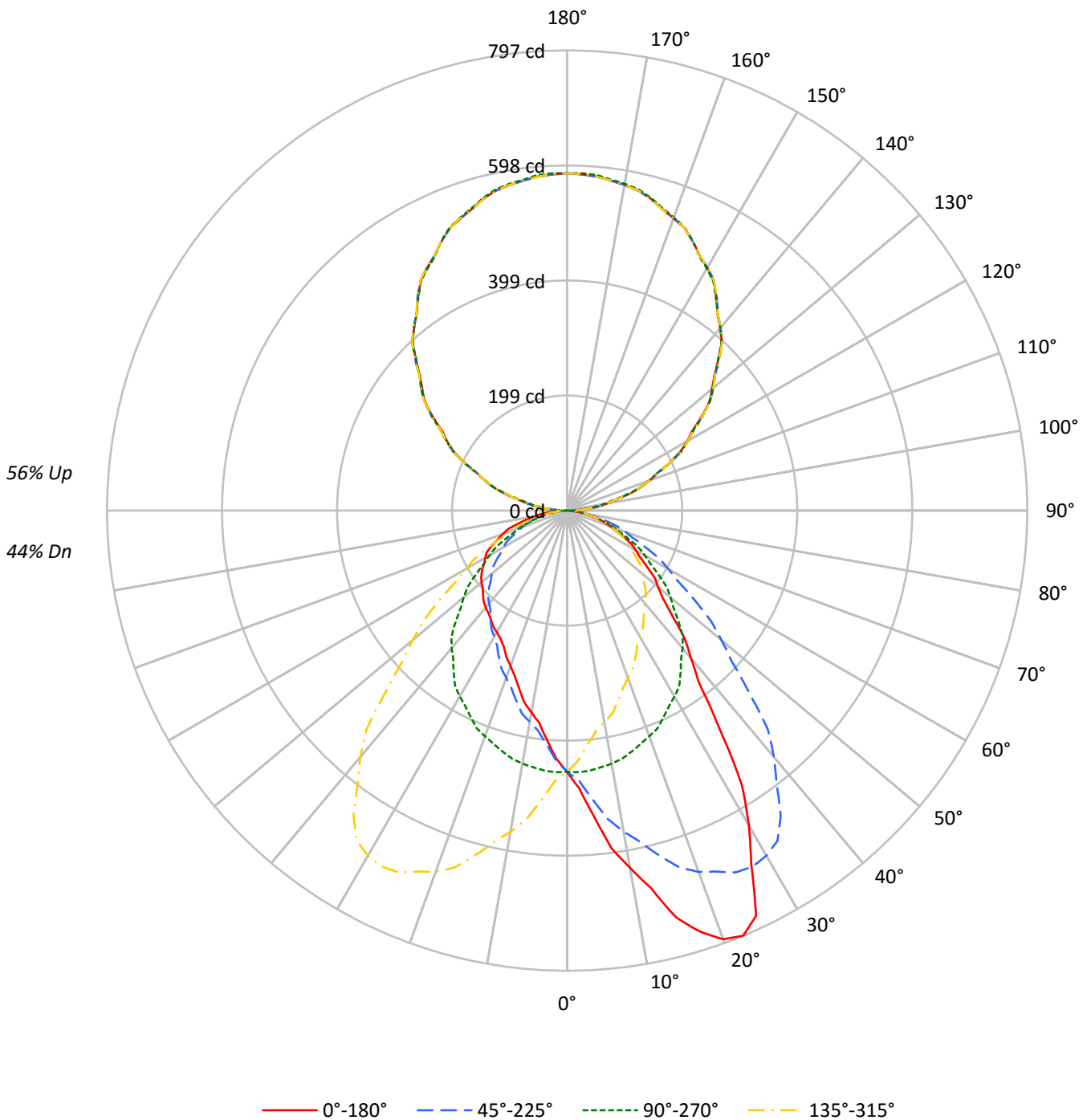
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332500-927

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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					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44				
1	97	92	89	85	88	85	81	78	70	68	66	57	55	54	45	44	43	37				
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	36	31				
3	80	71	64	58	73	65	59	54	55	50	46	44	41	39	35	33	31	27				
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	23				
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	28	26	24	20				
6	62	50	43	37	57	47	40	34	39	34	30	32	28	25	26	23	21	18				
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16				
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14				
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13				
10	46	35	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	3654	3654	3654	3654
5°	4302	3663	3233	3663
10°	5151	3647	2911	3647
15°	6095	3611	2674	3611
20°	6787	3572	2461	3572
25°	6897	3517	2314	3517
30°	5868	3464	2269	3464
35°	4512	3377	2269	3377
40°	3517	3276	2312	3276
45°	2932	3123	2351	3123
50°	2581	2936	2430	2936
55°	2365	2712	2528	2712
60°	2215	2512	2645	2512
65°	2063	2288	2743	2288
70°	1886	2065	2804	2065
75°	1684	1818	2773	1818
80°	1409	1492	2687	1492
85°	1037	1074	2566	1074



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.1	1.5
10°-20°	135.9	4.7
20°-30°	215.5	7.5
30°-40°	239.8	8.4
40°-50°	218.3	7.6
50°-60°	178.4	6.2
60°-70°	127.4	4.4
70°-80°	70.1	2.4
80°-90°	20.9	0.7
90°-100°	38.5	1.3
100°-110°	114.1	4.0
110°-120°	193.7	6.7
120°-130°	255.5	8.9
130°-140°	286.9	10.0
140°-150°	281.9	9.8
150°-160°	237.1	8.3
160°-170°	157.8	5.5
170°-180°	55.2	1.9
0°-30°	395.5	13.8
0°-40°	635.3	22.1
0°-60°	1032.1	35.9
0°-90°	1250.5	43.6
90°-120°	346.4	12.1
90°-150°	1170.7	40.8
90°-180°	1621.0	56.5
0°-180°	2871.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	531	452	399	452	531	54
15°	729	432	320	432	729	206
25°	774	395	260	395	774	341
35°	458	343	230	343	458	291
45°	257	274	206	274	257	202
55°	168	193	180	193	168	152
65°	108	120	144	120	108	107
75°	54	58	89	58	54	57
85°	11	12	28	12	11	14
90°	14	1	14	1	14	7
95°	36	27	36	27	36	37
105°	110	105	110	105	110	116
115°	195	197	195	197	195	193
125°	285	287	285	287	285	254
135°	370	370	370	370	370	286
145°	450	450	450	450	450	282
155°	515	515	515	515	515	237
165°	559	561	559	561	559	158
175°	581	583	581	583	581	55
180°	584	584	584	584	584	



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	481.6	481.6	480.1	479.7	478.7	477.4	477.1	474.6	469.8	467.5	467.0
5°	530.9	534.7	529.8	528.9	528.3	522.1	519.0	515.2	506.6	501.5	497.6
7.5°	589.8	590.2	588.0	586.4	581.5	576.2	568.1	559.4	549.1	538.5	530.4
10°	628.4	629.9	627.5	627.2	617.6	611.6	599.6	589.5	577.8	564.9	553.1
12.5°	669.2	667.2	665.9	657.9	656.1	645.2	631.2	620.8	602.9	588.0	572.3
15°	729.3	725.2	722.5	711.5	706.1	690.9	676.0	664.6	641.2	618.9	602.0
17.5°	764.5	768.7	762.6	758.0	744.0	733.3	718.2	694.2	675.9	648.2	626.9
20°	790.0	790.4	787.0	782.4	771.3	757.8	741.3	715.1	693.2	665.6	636.3
22.5°	796.9	797.0	795.6	791.2	782.8	771.9	755.3	733.3	706.8	676.8	647.5
25°	774.3	773.6	775.2	780.1	777.0	773.6	764.0	747.7	722.9	691.3	659.7
27.5°	690.1	695.4	704.9	716.8	728.4	737.2	739.7	736.3	721.0	695.0	661.9
30°	629.5	636.0	643.1	655.1	678.3	691.7	706.2	717.3	711.1	690.3	659.6
32.5°	563.0	564.6	575.1	588.7	610.1	635.6	658.9	681.4	688.8	677.9	652.2
35°	457.8	460.5	471.9	485.4	511.4	542.8	577.7	608.8	634.5	644.8	631.6
37.5°	373.6	381.1	389.2	403.7	426.7	454.9	491.1	531.4	569.7	595.3	599.7
40°	333.7	338.4	344.2	355.3	374.8	402.5	433.6	479.7	520.5	557.2	569.2
42.5°	302.2	305.0	308.6	318.5	333.4	361.0	389.4	430.0	470.8	514.8	534.9
45°	256.8	259.7	265.7	271.5	282.7	301.8	328.3	361.6	402.7	445.0	482.2
47.5°	224.1	225.9	229.4	235.7	245.3	257.9	279.3	307.2	345.2	386.4	426.0
50°	205.5	207.0	209.8	215.4	222.8	234.0	251.6	277.7	307.4	348.9	387.7
52.5°	190.8	191.4	193.5	197.3	203.1	212.5	227.0	248.6	276.3	313.2	351.9
55°	168.0	168.7	170.6	173.4	178.5	184.5	195.5	211.7	235.8	267.9	301.5
57.5°	149.2	149.8	151.3	152.4	156.6	161.4	170.0	181.5	199.8	227.0	257.0
60°	137.2	136.9	138.7	139.7	142.5	146.6	153.2	164.2	180.1	202.1	229.7
62.5°	125.6	125.0	126.6	127.9	129.4	132.9	138.3	146.9	159.9	179.7	203.6
65°	108.0	107.3	108.2	109.7	111.1	113.0	117.0	124.7	135.0	149.2	167.4
67.5°	90.4	91.2	91.3	92.1	92.9	95.5	98.2	103.6	110.9	122.3	137.7
70°	79.9	80.1	80.8	80.8	81.4	83.7	85.9	89.0	96.2	106.7	119.2
72.5°	69.4	70.2	69.9	70.4	70.9	72.4	74.0	77.1	83.1	90.9	101.6
75°	54.0	54.6	54.6	54.7	55.3	55.8	57.2	59.4	63.8	69.6	76.8
77.5°	39.4	39.5	39.7	40.4	40.4	41.3	42.2	44.0	46.2	50.1	54.7
80°	30.3	30.7	30.6	31.0	31.0	31.7	32.1	34.3	35.3	37.9	41.4
82.5°	22.3	22.7	22.6	23.1	23.4	23.6	24.1	25.0	26.0	28.3	29.7
85°	11.2	11.6	11.2	11.6	12.2	12.4	12.9	13.2	13.9	14.4	15.8
87.5°	6.0	6.4	6.4	6.5	6.7	6.8	6.8	6.6	7.1	7.1	7.5
90°	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2	10.5	9.9	9.1
92.5°	20.0	20.0	19.8	19.7	19.6	19.3	19.0	18.6	18.2	17.9	17.3
95°	35.7	35.7	35.7	35.7	35.7	35.6	35.3	34.9	34.6	34.3	33.7
97.5°	55.9	55.9	55.9	55.9	55.9	55.8	55.4	55.1	54.7	54.3	53.5
100°	70.0	70.0	70.0	70.0	70.0	69.9	69.7	69.6	69.3	69.2	68.2
102.5°	86.0	85.9	85.8	85.7	85.6	85.4	85.2	84.8	84.6	84.3	83.5
105°	110.3	110.0	109.6	109.3	109.0	108.8	108.4	108.1	107.8	107.5	107.1
107.5°	134.0	134.0	134.0	134.0	134.0	133.9	133.6	133.3	133.0	132.8	132.7
110°	150.9	150.6	150.3	150.0	149.7	149.6	149.9	150.0	150.3	150.4	150.6



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	168.3	168.2	168.1	168.1	168.0	168.0	168.0	168.1	168.1	168.2	168.3
115°	195.2	195.3	195.4	195.5	195.6	195.7	195.8	195.9	196.0	196.1	196.3
117.5°	220.9	221.0	221.3	221.4	221.7	221.9	222.3	222.6	222.9	223.3	223.4
120°	240.3	240.2	240.0	239.8	239.6	239.7	240.2	240.7	241.2	241.7	242.0
122.5°	256.7	257.0	257.4	257.7	258.1	258.4	258.8	259.1	259.4	259.8	259.9
125°	284.6	284.9	285.0	285.3	285.4	285.7	285.8	286.1	286.2	286.5	286.5
127.5°	310.6	310.8	310.9	311.1	311.2	311.4	311.6	311.8	312.0	312.2	312.4
130°	327.6	328.0	328.4	328.8	329.2	329.5	329.7	329.9	330.1	330.3	330.3
132.5°	345.6	345.8	345.9	346.1	346.3	346.5	346.7	346.9	347.1	347.3	347.4
135°	370.5	370.8	371.1	371.4	371.7	371.9	372.2	372.3	372.6	372.7	372.7
137.5°	396.6	396.6	396.5	396.4	396.3	396.5	396.7	397.0	397.3	397.5	397.4
140°	412.5	412.6	412.7	412.8	412.9	413.0	413.1	413.2	413.3	413.4	413.4
142.5°	428.4	428.4	428.5	428.5	428.5	428.5	428.6	428.6	428.6	428.6	428.6
145°	450.0	450.3	450.6	450.9	451.2	451.4	451.5	451.6	451.7	451.8	451.7
147.5°	471.9	472.0	472.1	472.2	472.3	472.4	472.5	472.5	472.6	472.7	472.8
150°	485.3	485.4	485.4	485.5	485.7	485.7	485.7	485.7	485.7	485.7	485.7
152.5°	497.6	497.8	498.0	498.4	498.6	498.6	498.4	498.1	497.9	497.6	497.6
155°	514.6	515.0	515.4	515.8	516.3	516.3	515.8	515.4	515.0	514.6	514.8
157.5°	529.9	530.2	530.6	530.9	531.2	531.3	531.0	530.7	530.4	530.0	530.1
160°	538.6	539.1	539.6	540.1	540.6	540.7	540.3	540.1	539.8	539.5	539.6
162.5°	547.6	548.1	548.6	549.1	549.6	549.6	549.1	548.5	548.0	547.4	547.6
165°	559.4	559.8	560.2	560.5	560.9	560.9	560.2	559.7	559.0	558.5	558.6
167.5°	567.8	568.4	569.0	569.7	570.2	570.3	569.7	569.0	568.5	567.8	567.8
170°	572.4	573.1	573.9	574.6	575.3	575.3	574.7	574.1	573.5	572.9	572.8
172.5°	576.5	577.1	577.8	578.5	579.2	579.2	578.6	577.9	577.2	576.6	576.5
175°	580.6	581.3	582.0	582.7	583.4	583.4	582.7	582.0	581.3	580.6	580.7
177.5°	582.7	583.4	584.1	584.7	585.3	585.3	584.8	584.2	583.7	583.1	583.1
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	467.1	465.0	463.5	462.3	459.1	457.1	455.6	453.5	451.1	448.5	445.4
5°	493.6	487.3	482.6	475.5	468.7	463.1	457.2	452.0	445.7	438.7	433.6
7.5°	521.5	512.0	499.9	489.3	477.4	467.1	458.0	448.5	438.7	429.1	420.4
10°	539.2	527.0	513.5	497.6	482.6	469.3	456.9	444.9	433.2	421.7	411.7
12.5°	558.3	543.0	523.1	504.5	487.7	469.8	455.0	440.2	426.2	414.0	402.4
15°	583.8	561.9	538.8	513.9	491.8	471.0	450.5	432.0	416.2	400.1	388.8
17.5°	599.5	572.4	546.1	520.0	493.2	466.9	444.9	423.5	403.8	387.8	373.6
20°	609.9	582.9	550.1	524.0	492.2	465.2	439.7	415.8	395.2	378.2	363.5
22.5°	618.9	587.7	554.8	520.5	488.9	460.2	432.3	408.4	387.3	369.3	355.3
25°	623.8	588.0	552.3	518.2	482.2	448.3	422.9	394.8	372.3	353.4	338.4
27.5°	624.3	586.0	545.7	507.8	470.6	439.0	407.1	381.9	358.6	338.6	324.2
30°	622.7	582.7	539.4	498.4	461.1	426.7	398.9	371.6	347.8	327.9	312.9
32.5°	617.3	575.8	531.3	487.8	449.2	415.6	387.0	360.9	337.7	318.1	302.4
35°	602.2	561.1	513.7	468.5	429.0	395.1	369.2	342.7	319.5	301.0	285.7
37.5°	578.5	541.4	493.1	446.4	407.5	373.4	347.8	323.9	302.9	284.1	268.5
40°	557.8	525.1	476.7	431.2	389.2	356.8	332.8	310.9	290.0	272.2	257.4
42.5°	533.9	505.5	460.9	412.6	372.1	339.5	316.2	296.4	276.9	260.4	245.6
45°	491.4	472.6	430.6	386.0	343.8	313.1	290.8	273.5	257.1	240.9	228.5
47.5°	442.5	433.2	397.8	355.5	315.4	285.1	265.8	249.9	235.4	221.7	210.8
50°	409.6	405.1	374.6	333.7	295.5	267.0	247.5	233.8	221.4	209.5	199.1
52.5°	377.2	377.1	349.5	312.1	276.7	249.3	229.9	217.1	206.4	196.7	187.4
55°	327.7	333.0	311.4	278.1	246.4	221.6	204.1	192.7	185.2	177.2	170.2
57.5°	282.3	291.0	273.1	243.8	217.3	194.6	179.4	170.8	162.8	157.9	152.8
60°	252.5	260.8	246.9	222.2	197.3	177.8	163.3	155.6	148.7	145.3	141.7
62.5°	226.2	233.5	223.2	200.3	178.6	159.9	147.7	140.3	135.6	132.0	129.6
65°	188.5	194.6	185.8	169.1	150.5	135.5	125.6	119.8	115.3	113.8	111.1
67.5°	152.3	158.0	153.2	139.0	124.1	112.7	105.0	99.4	96.7	95.5	93.6
70°	130.9	136.5	131.4	119.1	107.6	98.1	90.7	87.5	84.8	84.2	81.6
72.5°	112.7	116.5	111.5	101.8	92.1	84.0	78.3	74.9	73.5	72.5	71.1
75°	84.5	87.9	84.5	77.1	70.1	64.5	59.7	58.3	56.6	56.1	55.1
77.5°	59.8	62.7	60.2	55.5	50.3	45.9	43.3	41.7	41.3	40.3	40.8
80°	45.7	47.6	45.2	42.0	37.9	34.9	33.0	32.1	31.0	30.6	31.3
82.5°	32.9	33.7	32.4	30.3	27.3	25.3	24.0	22.9	22.7	22.7	22.7
85°	17.0	16.9	16.7	14.8	13.9	12.6	11.8	11.6	11.4	11.8	12.2
87.5°	7.4	7.4	7.1	6.3	5.5	4.9	4.5	4.2	4.5	4.9	5.3
90°	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3	2.5	3.6	4.7
92.5°	16.8	16.2	15.6	14.7	13.5	12.2	10.9	9.7	10.9	12.2	13.5
95°	33.0	32.2	31.5	30.7	29.8	28.9	28.0	27.1	28.0	28.9	29.8
97.5°	52.7	51.8	51.0	50.2	49.5	48.8	48.1	47.4	48.1	48.8	49.5
100°	67.3	66.4	65.5	64.9	64.5	64.1	63.7	63.2	63.7	64.1	64.5
102.5°	82.6	81.8	81.0	80.5	80.3	80.2	80.0	79.9	80.0	80.2	80.3
105°	106.7	106.3	105.9	105.7	105.6	105.4	105.4	105.3	105.4	105.4	105.6
107.5°	132.6	132.5	132.5	132.5	132.3	132.1	132.1	131.9	132.1	132.1	132.3
110°	150.7	150.8	150.8	150.8	150.6	150.4	150.2	150.0	150.2	150.4	150.6





TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	168.5	168.7	168.9	169.0	168.9	168.9	168.8	168.8	168.8	168.9	168.9
115°	196.5	196.7	196.9	197.0	197.0	197.0	197.0	197.0	197.0	197.0	197.0
117.5°	223.6	223.7	223.9	223.9	223.8	223.7	223.6	223.6	223.6	223.7	223.8
120°	242.3	242.6	243.0	242.9	242.5	242.1	241.7	241.3	241.7	242.1	242.5
122.5°	260.1	260.2	260.4	260.3	260.2	260.0	259.8	259.7	259.8	260.0	260.2
125°	286.7	286.8	286.8	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9
127.5°	312.5	312.7	312.8	312.8	312.5	312.2	311.9	311.6	311.9	312.2	312.5
130°	330.3	330.3	330.3	330.1	329.9	329.5	329.2	328.9	329.2	329.5	329.9
132.5°	347.5	347.5	347.6	347.5	347.3	347.1	346.9	346.7	346.9	347.1	347.3
135°	372.7	372.7	372.7	372.5	371.9	371.2	370.7	370.0	370.7	371.2	371.9
137.5°	397.2	397.0	396.9	396.6	396.3	396.1	395.8	395.5	395.8	396.1	396.3
140°	413.4	413.4	413.4	413.3	413.1	412.9	412.7	412.5	412.7	412.9	413.1
142.5°	428.7	428.8	428.9	428.9	428.6	428.5	428.3	428.0	428.3	428.5	428.6
145°	451.6	451.5	451.4	451.1	450.8	450.4	450.0	449.6	450.0	450.4	450.8
147.5°	472.9	472.9	473.0	472.9	472.3	471.8	471.3	470.9	471.3	471.8	472.3
150°	485.7	485.7	485.7	485.5	485.1	484.7	484.3	483.9	484.3	484.7	485.1
152.5°	497.5	497.4	497.3	497.2	496.9	496.7	496.5	496.2	496.5	496.7	496.9
155°	514.8	514.9	515.0	515.1	515.1	515.1	515.1	515.1	515.1	515.1	515.1
157.5°	530.1	530.1	530.1	530.3	530.4	530.6	530.8	531.0	530.8	530.6	530.4
160°	539.7	539.8	539.9	540.0	540.1	540.2	540.3	540.3	540.3	540.2	540.1
162.5°	547.6	547.7	547.8	548.0	548.3	548.5	548.8	549.1	548.8	548.5	548.3
165°	558.9	559.0	559.3	559.5	559.8	560.1	560.4	560.7	560.4	560.1	559.8
167.5°	567.8	567.8	567.8	568.0	568.4	568.8	569.3	569.7	569.3	568.8	568.4
170°	572.7	572.6	572.5	572.7	573.2	573.7	574.3	574.7	574.3	573.7	573.2
172.5°	576.5	576.5	576.5	576.6	577.1	577.5	577.9	578.3	577.9	577.5	577.1
175°	580.8	580.9	581.0	581.3	581.8	582.3	582.8	583.3	582.8	582.3	581.8
177.5°	583.1	583.1	583.1	583.3	583.8	584.2	584.6	584.9	584.6	584.2	583.8
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	443.9	442.5	440.6	437.9	435.6	433.2	432.6	431.7	433.6	432.1	431.6
5°	429.4	425.4	420.3	414.5	411.1	406.3	405.4	403.5	401.6	401.4	399.5
7.5°	413.9	408.1	401.5	395.6	390.1	384.8	381.3	380.6	377.8	376.1	374.3
10°	404.0	396.9	389.2	383.6	377.2	371.6	367.7	365.4	363.5	361.5	359.6
12.5°	392.4	384.8	378.4	372.3	364.8	360.5	354.0	350.1	349.7	349.7	344.9
15°	378.7	371.2	361.5	352.8	348.7	340.5	336.9	332.4	329.6	326.8	324.6
17.5°	363.1	353.8	346.2	336.3	328.4	321.9	317.2	314.5	310.2	306.3	303.4
20°	353.4	343.5	335.4	324.9	316.3	308.2	304.3	300.6	297.4	294.0	290.8
22.5°	343.5	333.1	323.3	313.1	305.1	296.5	292.7	287.6	284.6	282.7	279.6
25°	327.9	316.6	305.4	295.6	287.4	279.9	274.9	270.9	267.5	266.0	264.0
27.5°	310.9	299.8	288.9	277.8	268.5	263.0	259.0	256.0	254.1	252.1	251.1
30°	300.2	288.5	276.9	266.6	258.0	252.5	248.8	246.8	245.3	244.3	243.4
32.5°	289.2	277.7	265.5	256.1	248.3	243.5	240.7	238.6	237.9	237.6	237.2
35°	271.6	260.1	248.8	240.3	233.1	231.2	228.7	227.6	227.2	228.5	229.1
37.5°	254.7	243.9	233.5	225.4	220.5	217.9	217.0	217.1	218.4	219.5	220.9
40°	243.8	233.2	223.5	216.3	211.8	210.2	209.8	210.7	212.2	213.6	215.1
42.5°	233.1	222.8	213.9	207.2	204.1	202.5	202.7	203.7	205.8	207.4	209.6
45°	216.6	207.9	199.3	193.8	191.2	191.6	191.6	193.3	195.4	197.8	200.3
47.5°	201.0	192.3	185.2	180.6	179.3	179.0	180.0	182.2	185.1	188.1	191.5
50°	190.5	182.2	176.0	171.9	170.4	171.0	172.5	174.5	178.1	181.9	185.4
52.5°	179.8	172.3	166.6	162.8	161.7	162.7	164.2	167.5	170.6	174.7	179.0
55°	163.3	156.9	152.4	149.6	149.2	149.8	151.5	155.0	159.5	164.6	168.7
57.5°	146.9	141.5	137.4	135.5	135.6	136.2	138.9	143.1	148.0	153.4	158.7
60°	135.7	130.9	127.5	126.0	126.2	127.3	130.7	134.6	140.6	145.8	151.5
62.5°	125.2	121.0	117.7	116.4	116.1	118.6	121.8	125.9	131.9	137.8	143.9
65°	108.4	105.0	102.3	101.6	102.2	104.1	108.2	113.6	118.7	124.8	131.3
67.5°	91.9	89.1	87.3	87.6	88.3	91.1	94.5	99.2	105.0	111.4	117.6
70°	81.4	78.7	77.2	77.4	78.6	81.9	84.9	89.6	95.8	102.3	107.6
72.5°	70.6	68.8	67.5	68.3	69.4	71.7	75.5	80.2	85.6	91.7	97.3
75°	54.2	54.2	53.5	54.0	55.7	57.9	60.8	65.6	71.1	76.0	80.4
77.5°	40.2	39.8	40.2	41.0	41.9	44.6	47.8	51.3	55.4	60.3	64.0
80°	30.7	31.0	31.8	33.0	33.4	35.4	38.8	42.0	45.2	49.3	52.8
82.5°	23.1	23.3	23.8	25.2	25.6	27.8	29.9	33.1	36.0	38.8	41.7
85°	12.6	12.6	13.5	14.1	15.0	16.5	17.8	19.7	22.3	24.2	27.0
87.5°	5.9	6.2	6.9	7.4	8.0	8.9	9.3	11.1	11.8	12.7	14.1
90°	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2	11.7	12.4	12.8
92.5°	14.7	15.6	16.2	16.8	17.3	17.9	18.2	18.6	19.0	19.3	19.6
95°	30.7	31.5	32.2	33.0	33.7	34.3	34.6	34.9	35.3	35.6	35.7
97.5°	50.2	51.0	51.8	52.7	53.5	54.3	54.7	55.1	55.4	55.8	55.9
100°	64.9	65.5	66.4	67.3	68.2	69.2	69.3	69.6	69.7	69.9	70.0
102.5°	80.5	81.0	81.8	82.6	83.5	84.3	84.6	84.8	85.2	85.4	85.6
105°	105.7	105.9	106.3	106.7	107.1	107.5	107.8	108.1	108.4	108.8	109.0
107.5°	132.5	132.5	132.5	132.6	132.7	132.8	133.0	133.3	133.6	133.9	134.0
110°	150.8	150.8	150.8	150.7	150.6	150.4	150.3	150.0	149.9	149.6	149.7



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	169.0	168.9	168.7	168.5	168.3	168.2	168.1	168.1	168.0	168.0	168.0
115°	197.0	196.9	196.7	196.5	196.3	196.1	196.0	195.9	195.8	195.7	195.6
117.5°	223.9	223.9	223.7	223.6	223.4	223.3	222.9	222.6	222.3	221.9	221.7
120°	242.9	243.0	242.6	242.3	242.0	241.7	241.2	240.7	240.2	239.7	239.6
122.5°	260.3	260.4	260.2	260.1	259.9	259.8	259.4	259.1	258.8	258.4	258.1
125°	286.9	286.8	286.8	286.7	286.5	286.5	286.2	286.1	285.8	285.7	285.4
127.5°	312.8	312.8	312.7	312.5	312.4	312.2	312.0	311.8	311.6	311.4	311.2
130°	330.1	330.3	330.3	330.3	330.3	330.3	330.1	329.9	329.7	329.5	329.2
132.5°	347.5	347.6	347.5	347.5	347.4	347.3	347.1	346.9	346.7	346.5	346.3
135°	372.5	372.7	372.7	372.7	372.7	372.7	372.6	372.3	372.2	371.9	371.7
137.5°	396.6	396.9	397.0	397.2	397.4	397.5	397.3	397.0	396.7	396.5	396.3
140°	413.3	413.4	413.4	413.4	413.4	413.4	413.3	413.2	413.1	413.0	412.9
142.5°	428.9	428.9	428.8	428.7	428.6	428.6	428.6	428.6	428.6	428.5	428.5
145°	451.1	451.4	451.5	451.6	451.7	451.8	451.7	451.6	451.5	451.4	451.2
147.5°	472.9	473.0	472.9	472.9	472.8	472.7	472.6	472.5	472.5	472.4	472.3
150°	485.5	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7	485.7
152.5°	497.2	497.3	497.4	497.5	497.6	497.6	497.9	498.1	498.4	498.6	498.6
155°	515.1	515.0	514.9	514.8	514.8	514.6	515.0	515.4	515.8	516.3	516.3
157.5°	530.3	530.1	530.1	530.1	530.1	530.0	530.4	530.7	531.0	531.3	531.2
160°	540.0	539.9	539.8	539.7	539.6	539.5	539.8	540.1	540.3	540.7	540.6
162.5°	548.0	547.8	547.7	547.6	547.6	547.4	548.0	548.5	549.1	549.6	549.6
165°	559.5	559.3	559.0	558.9	558.6	558.5	559.0	559.7	560.2	560.9	560.9
167.5°	568.0	567.8	567.8	567.8	567.8	567.8	568.5	569.0	569.7	570.3	570.2
170°	572.7	572.5	572.6	572.7	572.8	572.9	573.5	574.1	574.7	575.3	575.3
172.5°	576.6	576.5	576.5	576.5	576.5	576.6	577.2	577.9	578.6	579.2	579.2
175°	581.3	581.0	580.9	580.8	580.7	580.6	581.3	582.0	582.7	583.4	583.4
177.5°	583.3	583.1	583.1	583.1	583.1	583.1	583.7	584.2	584.8	585.3	585.3
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	431.3	431.0	429.9	429.8	429.9	431.0	431.3	431.6	432.1	433.6	431.7
5°	398.4	397.4	396.9	398.9	396.9	397.4	398.4	399.5	401.4	401.6	403.5
7.5°	373.6	372.9	371.2	370.7	371.2	372.9	373.6	374.3	376.1	377.8	380.6
10°	357.7	357.0	355.5	355.1	355.5	357.0	357.7	359.6	361.5	363.5	365.4
12.5°	342.4	341.0	340.6	341.0	340.6	341.0	342.4	344.9	349.7	349.7	350.1
15°	322.1	321.3	319.2	319.9	319.2	321.3	322.1	324.6	326.8	329.6	332.4
17.5°	302.1	301.2	298.7	300.9	298.7	301.2	302.1	303.4	306.3	310.2	314.5
20°	289.5	288.0	286.7	286.5	286.7	288.0	289.5	290.8	294.0	297.4	300.6
22.5°	277.5	276.2	276.0	274.8	276.0	276.2	277.5	279.6	282.7	284.6	287.6
25°	262.4	261.2	260.8	259.8	260.8	261.2	262.4	264.0	266.0	267.5	270.9
27.5°	251.0	250.3	249.6	249.9	249.6	250.3	251.0	251.1	252.1	254.1	256.0
30°	243.9	243.8	243.4	243.4	243.4	243.8	243.9	243.4	244.3	245.3	246.8
32.5°	238.1	238.1	238.3	238.3	238.3	238.1	238.1	237.2	237.6	237.9	238.6
35°	229.9	230.4	230.8	230.2	230.8	230.4	229.9	229.1	228.5	227.2	227.6
37.5°	222.4	223.0	223.6	224.2	223.6	223.0	222.4	220.9	219.5	218.4	217.1
40°	216.7	218.0	218.4	219.4	218.4	218.0	216.7	215.1	213.6	212.2	210.7
42.5°	211.4	212.8	213.7	214.0	213.7	212.8	211.4	209.6	207.4	205.8	203.7
45°	203.0	204.5	205.9	205.9	205.9	204.5	203.0	200.3	197.8	195.4	193.3
47.5°	194.5	196.6	198.0	198.3	198.0	196.6	194.5	191.5	188.1	185.1	182.2
50°	188.6	191.2	192.6	193.5	192.6	191.2	188.6	185.4	181.9	178.1	174.5
52.5°	182.9	185.5	187.3	187.7	187.3	185.5	182.9	179.0	174.7	170.6	167.5
55°	173.0	176.8	178.9	179.6	178.9	176.8	173.0	168.7	164.6	159.5	155.0
57.5°	163.7	167.2	169.6	170.2	169.6	167.2	163.7	158.7	153.4	148.0	143.1
60°	156.5	160.3	163.3	163.8	163.3	160.3	156.5	151.5	145.8	140.6	134.6
62.5°	149.2	153.1	155.8	157.2	155.8	153.1	149.2	143.9	137.8	131.9	125.9
65°	136.5	140.5	143.1	143.6	143.1	140.5	136.5	131.3	124.8	118.7	113.6
67.5°	122.6	126.6	128.3	129.4	128.3	126.6	122.6	117.6	111.4	105.0	99.2
70°	112.9	116.1	118.0	118.8	118.0	116.1	112.9	107.6	102.3	95.8	89.6
72.5°	101.8	105.1	107.3	107.5	107.3	105.1	101.8	97.3	91.7	85.6	80.2
75°	84.8	87.8	88.9	88.9	88.9	87.8	84.8	80.4	76.0	71.1	65.6
77.5°	67.1	68.6	70.0	70.3	70.0	68.6	67.1	64.0	60.3	55.4	51.3
80°	55.7	56.6	57.8	57.8	57.8	56.6	55.7	52.8	49.3	45.2	42.0
82.5°	44.0	44.8	45.9	45.7	45.9	44.8	44.0	41.7	38.8	36.0	33.1
85°	26.6	28.3	28.1	27.7	28.1	28.3	26.6	27.0	24.2	22.3	19.7
87.5°	14.6	14.8	15.3	15.6	15.3	14.8	14.6	14.1	12.7	11.8	11.1
90°	13.0	13.2	13.4	13.5	13.4	13.2	13.0	12.8	12.4	11.7	11.2
92.5°	19.7	19.8	20.0	20.0	20.0	19.8	19.7	19.6	19.3	19.0	18.6
95°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.6	35.3	34.9
97.5°	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.8	55.4	55.1
100°	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	69.9	69.7	69.6
102.5°	85.7	85.8	85.9	86.0	85.9	85.8	85.7	85.6	85.4	85.2	84.8
105°	109.3	109.6	110.0	110.3	110.0	109.6	109.3	109.0	108.8	108.4	108.1
107.5°	134.0	134.0	134.0	134.0	134.0	134.0	134.0	134.0	133.9	133.6	133.3
110°	150.0	150.3	150.6	150.9	150.6	150.3	150.0	149.7	149.6	149.9	150.0



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	168.1	168.1	168.2	168.3	168.2	168.1	168.1	168.0	168.0	168.0	168.1
115°	195.5	195.4	195.3	195.2	195.3	195.4	195.5	195.6	195.7	195.8	195.9
117.5°	221.4	221.3	221.0	220.9	221.0	221.3	221.4	221.7	221.9	222.3	222.6
120°	239.8	240.0	240.2	240.3	240.2	240.0	239.8	239.6	239.7	240.2	240.7
122.5°	257.7	257.4	257.0	256.7	257.0	257.4	257.7	258.1	258.4	258.8	259.1
125°	285.3	285.0	284.9	284.6	284.9	285.0	285.3	285.4	285.7	285.8	286.1
127.5°	311.1	310.9	310.8	310.6	310.8	310.9	311.1	311.2	311.4	311.6	311.8
130°	328.8	328.4	328.0	327.6	328.0	328.4	328.8	329.2	329.5	329.7	329.9
132.5°	346.1	345.9	345.8	345.6	345.8	345.9	346.1	346.3	346.5	346.7	346.9
135°	371.4	371.1	370.8	370.5	370.8	371.1	371.4	371.7	371.9	372.2	372.3
137.5°	396.4	396.5	396.6	396.6	396.6	396.5	396.4	396.3	396.5	396.7	397.0
140°	412.8	412.7	412.6	412.5	412.6	412.7	412.8	412.9	413.0	413.1	413.2
142.5°	428.5	428.5	428.4	428.4	428.4	428.5	428.5	428.5	428.5	428.6	428.6
145°	450.9	450.6	450.3	450.0	450.3	450.6	450.9	451.2	451.4	451.5	451.6
147.5°	472.2	472.1	472.0	471.9	472.0	472.1	472.2	472.3	472.4	472.5	472.5
150°	485.5	485.4	485.4	485.3	485.4	485.4	485.5	485.7	485.7	485.7	485.7
152.5°	498.4	498.0	497.8	497.6	497.8	498.0	498.4	498.6	498.6	498.4	498.1
155°	515.8	515.4	515.0	514.6	515.0	515.4	515.8	516.3	516.3	515.8	515.4
157.5°	530.9	530.6	530.2	529.9	530.2	530.6	530.9	531.2	531.3	531.0	530.7
160°	540.1	539.6	539.1	538.6	539.1	539.6	540.1	540.6	540.7	540.3	540.1
162.5°	549.1	548.6	548.1	547.6	548.1	548.6	549.1	549.6	549.6	549.1	548.5
165°	560.5	560.2	559.8	559.4	559.8	560.2	560.5	560.9	560.9	560.2	559.7
167.5°	569.7	569.0	568.4	567.8	568.4	569.0	569.7	570.2	570.3	569.7	569.0
170°	574.6	573.9	573.1	572.4	573.1	573.9	574.6	575.3	575.3	574.7	574.1
172.5°	578.5	577.8	577.1	576.5	577.1	577.8	578.5	579.2	579.2	578.6	577.9
175°	582.7	582.0	581.3	580.6	581.3	582.0	582.7	583.4	583.4	582.7	582.0
177.5°	584.7	584.1	583.4	582.7	583.4	584.1	584.7	585.3	585.3	584.8	584.2
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	432.6	433.2	435.6	437.9	440.6	442.5	443.9	445.4	448.5	451.1	453.5
5°	405.4	406.3	411.1	414.5	420.3	425.4	429.4	433.6	438.7	445.7	452.0
7.5°	381.3	384.8	390.1	395.6	401.5	408.1	413.9	420.4	429.1	438.7	448.5
10°	367.7	371.6	377.2	383.6	389.2	396.9	404.0	411.7	421.7	433.2	444.9
12.5°	354.0	360.5	364.8	372.3	378.4	384.8	392.4	402.4	414.0	426.2	440.2
15°	336.9	340.5	348.7	352.8	361.5	371.2	378.7	388.8	400.1	416.2	432.0
17.5°	317.2	321.9	328.4	336.3	346.2	353.8	363.1	373.6	387.8	403.8	423.5
20°	304.3	308.2	316.3	324.9	335.4	343.5	353.4	363.5	378.2	395.2	415.8
22.5°	292.7	296.5	305.1	313.1	323.3	333.1	343.5	355.3	369.3	387.3	408.4
25°	274.9	279.9	287.4	295.6	305.4	316.6	327.9	338.4	353.4	372.3	394.8
27.5°	259.0	263.0	268.5	277.8	288.9	299.8	310.9	324.2	338.6	358.6	381.9
30°	248.8	252.5	258.0	266.6	276.9	288.5	300.2	312.9	327.9	347.8	371.6
32.5°	240.7	243.5	248.3	256.1	265.5	277.7	289.2	302.4	318.1	337.7	360.9
35°	228.7	231.2	233.1	240.3	248.8	260.1	271.6	285.7	301.0	319.5	342.7
37.5°	217.0	217.9	220.5	225.4	233.5	243.9	254.7	268.5	284.1	302.9	323.9
40°	209.8	210.2	211.8	216.3	223.5	233.2	243.8	257.4	272.2	290.0	310.9
42.5°	202.7	202.5	204.1	207.2	213.9	222.8	233.1	245.6	260.4	276.9	296.4
45°	191.6	191.6	191.2	193.8	199.3	207.9	216.6	228.5	240.9	257.1	273.5
47.5°	180.0	179.0	179.3	180.6	185.2	192.3	201.0	210.8	221.7	235.4	249.9
50°	172.5	171.0	170.4	171.9	176.0	182.2	190.5	199.1	209.5	221.4	233.8
52.5°	164.2	162.7	161.7	162.8	166.6	172.3	179.8	187.4	196.7	206.4	217.1
55°	151.5	149.8	149.2	149.6	152.4	156.9	163.3	170.2	177.2	185.2	192.7
57.5°	138.9	136.2	135.6	135.5	137.4	141.5	146.9	152.8	157.9	162.8	170.8
60°	130.7	127.3	126.2	126.0	127.5	130.9	135.7	141.7	145.3	148.7	155.6
62.5°	121.8	118.6	116.1	116.4	117.7	121.0	125.2	129.6	132.0	135.6	140.3
65°	108.2	104.1	102.2	101.6	102.3	105.0	108.4	111.1	113.8	115.3	119.8
67.5°	94.5	91.1	88.3	87.6	87.3	89.1	91.9	93.6	95.5	96.7	99.4
70°	84.9	81.9	78.6	77.4	77.2	78.7	81.4	81.6	84.2	84.8	87.5
72.5°	75.5	71.7	69.4	68.3	67.5	68.8	70.6	71.1	72.5	73.5	74.9
75°	60.8	57.9	55.7	54.0	53.5	54.2	54.2	55.1	56.1	56.6	58.3
77.5°	47.8	44.6	41.9	41.0	40.2	39.8	40.2	40.8	40.3	41.3	41.7
80°	38.8	35.4	33.4	33.0	31.8	31.0	30.7	31.3	30.6	31.0	32.1
82.5°	29.9	27.8	25.6	25.2	23.8	23.3	23.1	22.7	22.7	22.7	22.9
85°	17.8	16.5	15.0	14.1	13.5	12.6	12.6	12.2	11.8	11.4	11.6
87.5°	9.3	8.9	8.0	7.4	6.9	6.2	5.9	5.3	4.9	4.5	4.2
90°	10.5	9.9	9.1	8.3	7.5	6.7	5.8	4.7	3.6	2.5	1.3
92.5°	18.2	17.9	17.3	16.8	16.2	15.6	14.7	13.5	12.2	10.9	9.7
95°	34.6	34.3	33.7	33.0	32.2	31.5	30.7	29.8	28.9	28.0	27.1
97.5°	54.7	54.3	53.5	52.7	51.8	51.0	50.2	49.5	48.8	48.1	47.4
100°	69.3	69.2	68.2	67.3	66.4	65.5	64.9	64.5	64.1	63.7	63.2
102.5°	84.6	84.3	83.5	82.6	81.8	81.0	80.5	80.3	80.2	80.0	79.9
105°	107.8	107.5	107.1	106.7	106.3	105.9	105.7	105.6	105.4	105.4	105.3
107.5°	133.0	132.8	132.7	132.6	132.5	132.5	132.5	132.3	132.1	132.1	131.9
110°	150.3	150.4	150.6	150.7	150.8	150.8	150.8	150.6	150.4	150.2	150.0



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	168.1	168.2	168.3	168.5	168.7	168.9	169.0	168.9	168.9	168.8	168.8
115°	196.0	196.1	196.3	196.5	196.7	196.9	197.0	197.0	197.0	197.0	197.0
117.5°	222.9	223.3	223.4	223.6	223.7	223.9	223.9	223.8	223.7	223.6	223.6
120°	241.2	241.7	242.0	242.3	242.6	243.0	242.9	242.5	242.1	241.7	241.3
122.5°	259.4	259.8	259.9	260.1	260.2	260.4	260.3	260.2	260.0	259.8	259.7
125°	286.2	286.5	286.5	286.7	286.8	286.8	286.9	286.9	286.9	286.9	286.9
127.5°	312.0	312.2	312.4	312.5	312.7	312.8	312.8	312.5	312.2	311.9	311.6
130°	330.1	330.3	330.3	330.3	330.3	330.3	330.1	329.9	329.5	329.2	328.9
132.5°	347.1	347.3	347.4	347.5	347.5	347.6	347.5	347.3	347.1	346.9	346.7
135°	372.6	372.7	372.7	372.7	372.7	372.7	372.5	371.9	371.2	370.7	370.0
137.5°	397.3	397.5	397.4	397.2	397.0	396.9	396.6	396.3	396.1	395.8	395.5
140°	413.3	413.4	413.4	413.4	413.4	413.4	413.3	413.1	412.9	412.7	412.5
142.5°	428.6	428.6	428.6	428.7	428.8	428.9	428.9	428.6	428.5	428.3	428.0
145°	451.7	451.8	451.7	451.6	451.5	451.4	451.1	450.8	450.4	450.0	449.6
147.5°	472.6	472.7	472.8	472.9	472.9	473.0	472.9	472.3	471.8	471.3	470.9
150°	485.7	485.7	485.7	485.7	485.7	485.7	485.5	485.1	484.7	484.3	483.9
152.5°	497.9	497.6	497.6	497.5	497.4	497.3	497.2	496.9	496.7	496.5	496.2
155°	515.0	514.6	514.8	514.8	514.9	515.0	515.1	515.1	515.1	515.1	515.1
157.5°	530.4	530.0	530.1	530.1	530.1	530.1	530.3	530.4	530.6	530.8	531.0
160°	539.8	539.5	539.6	539.7	539.8	539.9	540.0	540.1	540.2	540.3	540.3
162.5°	548.0	547.4	547.6	547.6	547.7	547.8	548.0	548.3	548.5	548.8	549.1
165°	559.0	558.5	558.6	558.9	559.0	559.3	559.5	559.8	560.1	560.4	560.7
167.5°	568.5	567.8	567.8	567.8	567.8	567.8	568.0	568.4	568.8	569.3	569.7
170°	573.5	572.9	572.8	572.7	572.6	572.5	572.7	573.2	573.7	574.3	574.7
172.5°	577.2	576.6	576.5	576.5	576.5	576.5	576.6	577.1	577.5	577.9	578.3
175°	581.3	580.6	580.7	580.8	580.9	581.0	581.3	581.8	582.3	582.8	583.3
177.5°	583.7	583.1	583.1	583.1	583.1	583.1	583.3	583.8	584.2	584.6	584.9
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	455.6	457.1	459.1	462.3	463.5	465.0	467.1	467.0	467.5	469.8	474.6
5°	457.2	463.1	468.7	475.5	482.6	487.3	493.6	497.6	501.5	506.6	515.2
7.5°	458.0	467.1	477.4	489.3	499.9	512.0	521.5	530.4	538.5	549.1	559.4
10°	456.9	469.3	482.6	497.6	513.5	527.0	539.2	553.1	564.9	577.8	589.5
12.5°	455.0	469.8	487.7	504.5	523.1	543.0	558.3	572.3	588.0	602.9	620.8
15°	450.5	471.0	491.8	513.9	538.8	561.9	583.8	602.0	618.9	641.2	664.6
17.5°	444.9	466.9	493.2	520.0	546.1	572.4	599.5	626.9	648.2	675.9	694.2
20°	439.7	465.2	492.2	524.0	550.1	582.9	609.9	636.3	665.6	693.2	715.1
22.5°	432.3	460.2	488.9	520.5	554.8	587.7	618.9	647.5	676.8	706.8	733.3
25°	422.9	448.3	482.2	518.2	552.3	588.0	623.8	659.7	691.3	722.9	747.7
27.5°	407.1	439.0	470.6	507.8	545.7	586.0	624.3	661.9	695.0	721.0	736.3
30°	398.9	426.7	461.1	498.4	539.4	582.7	622.7	659.6	690.3	711.1	717.3
32.5°	387.0	415.6	449.2	487.8	531.3	575.8	617.3	652.2	677.9	688.8	681.4
35°	369.2	395.1	429.0	468.5	513.7	561.1	602.2	631.6	644.8	634.5	608.8
37.5°	347.8	373.4	407.5	446.4	493.1	541.4	578.5	599.7	595.3	569.7	531.4
40°	332.8	356.8	389.2	431.2	476.7	525.1	557.8	569.2	557.2	520.5	479.7
42.5°	316.2	339.5	372.1	412.6	460.9	505.5	533.9	534.9	514.8	470.8	430.0
45°	290.8	313.1	343.8	386.0	430.6	472.6	491.4	482.2	445.0	402.7	361.6
47.5°	265.8	285.1	315.4	355.5	397.8	433.2	442.5	426.0	386.4	345.2	307.2
50°	247.5	267.0	295.5	333.7	374.6	405.1	409.6	387.7	348.9	307.4	277.7
52.5°	229.9	249.3	276.7	312.1	349.5	377.1	377.2	351.9	313.2	276.3	248.6
55°	204.1	221.6	246.4	278.1	311.4	333.0	327.7	301.5	267.9	235.8	211.7
57.5°	179.4	194.6	217.3	243.8	273.1	291.0	282.3	257.0	227.0	199.8	181.5
60°	163.3	177.8	197.3	222.2	246.9	260.8	252.5	229.7	202.1	180.1	164.2
62.5°	147.7	159.9	178.6	200.3	223.2	233.5	226.2	203.6	179.7	159.9	146.9
65°	125.6	135.5	150.5	169.1	185.8	194.6	188.5	167.4	149.2	135.0	124.7
67.5°	105.0	112.7	124.1	139.0	153.2	158.0	152.3	137.7	122.3	110.9	103.6
70°	90.7	98.1	107.6	119.1	131.4	136.5	130.9	119.2	106.7	96.2	89.0
72.5°	78.3	84.0	92.1	101.8	111.5	116.5	112.7	101.6	90.9	83.1	77.1
75°	59.7	64.5	70.1	77.1	84.5	87.9	84.5	76.8	69.6	63.8	59.4
77.5°	43.3	45.9	50.3	55.5	60.2	62.7	59.8	54.7	50.1	46.2	44.0
80°	33.0	34.9	37.9	42.0	45.2	47.6	45.7	41.4	37.9	35.3	34.3
82.5°	24.0	25.3	27.3	30.3	32.4	33.7	32.9	29.7	28.3	26.0	25.0
85°	11.8	12.6	13.9	14.8	16.7	16.9	17.0	15.8	14.4	13.9	13.2
87.5°	4.5	4.9	5.5	6.3	7.1	7.4	7.4	7.5	7.1	7.1	6.6
90°	2.5	3.6	4.7	5.8	6.7	7.5	8.3	9.1	9.9	10.5	11.2
92.5°	10.9	12.2	13.5	14.7	15.6	16.2	16.8	17.3	17.9	18.2	18.6
95°	28.0	28.9	29.8	30.7	31.5	32.2	33.0	33.7	34.3	34.6	34.9
97.5°	48.1	48.8	49.5	50.2	51.0	51.8	52.7	53.5	54.3	54.7	55.1
100°	63.7	64.1	64.5	64.9	65.5	66.4	67.3	68.2	69.2	69.3	69.6
102.5°	80.0	80.2	80.3	80.5	81.0	81.8	82.6	83.5	84.3	84.6	84.8
105°	105.4	105.4	105.6	105.7	105.9	106.3	106.7	107.1	107.5	107.8	108.1
107.5°	132.1	132.1	132.3	132.5	132.5	132.5	132.6	132.7	132.8	133.0	133.3
110°	150.2	150.4	150.6	150.8	150.8	150.8	150.7	150.6	150.4	150.3	150.0





TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.8	168.9	168.9	169.0	168.9	168.7	168.5	168.3	168.2	168.1	168.1
115°	197.0	197.0	197.0	197.0	196.9	196.7	196.5	196.3	196.1	196.0	195.9
117.5°	223.6	223.7	223.8	223.9	223.9	223.7	223.6	223.4	223.3	222.9	222.6
120°	241.7	242.1	242.5	242.9	243.0	242.6	242.3	242.0	241.7	241.2	240.7
122.5°	259.8	260.0	260.2	260.3	260.4	260.2	260.1	259.9	259.8	259.4	259.1
125°	286.9	286.9	286.9	286.9	286.8	286.8	286.7	286.5	286.5	286.2	286.1
127.5°	311.9	312.2	312.5	312.8	312.8	312.7	312.5	312.4	312.2	312.0	311.8
130°	329.2	329.5	329.9	330.1	330.3	330.3	330.3	330.3	330.3	330.1	329.9
132.5°	346.9	347.1	347.3	347.5	347.6	347.5	347.5	347.4	347.3	347.1	346.9
135°	370.7	371.2	371.9	372.5	372.7	372.7	372.7	372.7	372.7	372.6	372.3
137.5°	395.8	396.1	396.3	396.6	396.9	397.0	397.2	397.4	397.5	397.3	397.0
140°	412.7	412.9	413.1	413.3	413.4	413.4	413.4	413.4	413.4	413.3	413.2
142.5°	428.3	428.5	428.6	428.9	428.9	428.8	428.7	428.6	428.6	428.6	428.6
145°	450.0	450.4	450.8	451.1	451.4	451.5	451.6	451.7	451.8	451.7	451.6
147.5°	471.3	471.8	472.3	472.9	473.0	472.9	472.9	472.8	472.7	472.6	472.5
150°	484.3	484.7	485.1	485.5	485.7	485.7	485.7	485.7	485.7	485.7	485.7
152.5°	496.5	496.7	496.9	497.2	497.3	497.4	497.5	497.6	497.6	497.9	498.1
155°	515.1	515.1	515.1	515.1	515.0	514.9	514.8	514.8	514.6	515.0	515.4
157.5°	530.8	530.6	530.4	530.3	530.1	530.1	530.1	530.1	530.0	530.4	530.7
160°	540.3	540.2	540.1	540.0	539.9	539.8	539.7	539.6	539.5	539.8	540.1
162.5°	548.8	548.5	548.3	548.0	547.8	547.7	547.6	547.6	547.4	548.0	548.5
165°	560.4	560.1	559.8	559.5	559.3	559.0	558.9	558.6	558.5	559.0	559.7
167.5°	569.3	568.8	568.4	568.0	567.8	567.8	567.8	567.8	567.8	568.5	569.0
170°	574.3	573.7	573.2	572.7	572.5	572.6	572.7	572.8	572.9	573.5	574.1
172.5°	577.9	577.5	577.1	576.6	576.5	576.5	576.5	576.5	576.6	577.2	577.9
175°	582.8	582.3	581.8	581.3	581.0	580.9	580.8	580.7	580.6	581.3	582.0
177.5°	584.6	584.2	583.8	583.3	583.1	583.1	583.1	583.1	583.1	583.7	584.2
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2	584.2



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	452.6	452.6	452.6	452.6	452.6	452.6	452.6
2.5°	477.1	477.4	478.7	479.7	480.1	481.6	481.6
5°	519.0	522.1	528.3	528.9	529.8	534.7	530.9
7.5°	568.1	576.2	581.5	586.4	588.0	590.2	589.8
10°	599.6	611.6	617.6	627.2	627.5	629.9	628.4
12.5°	631.2	645.2	656.1	657.9	665.9	667.2	669.2
15°	676.0	690.9	706.1	711.5	722.5	725.2	729.3
17.5°	718.2	733.3	744.0	758.0	762.6	768.7	764.5
20°	741.3	757.8	771.3	782.4	787.0	790.4	790.0
22.5°	755.3	771.9	782.8	791.2	795.6	797.0	796.9
25°	764.0	773.6	777.0	780.1	775.2	773.6	774.3
27.5°	739.7	737.2	728.4	716.8	704.9	695.4	690.1
30°	706.2	691.7	678.3	655.1	643.1	636.0	629.5
32.5°	658.9	635.6	610.1	588.7	575.1	564.6	563.0
35°	577.7	542.8	511.4	485.4	471.9	460.5	457.8
37.5°	491.1	454.9	426.7	403.7	389.2	381.1	373.6
40°	433.6	402.5	374.8	355.3	344.2	338.4	333.7
42.5°	389.4	361.0	333.4	318.5	308.6	305.0	302.2
45°	328.3	301.8	282.7	271.5	265.7	259.7	256.8
47.5°	279.3	257.9	245.3	235.7	229.4	225.9	224.1
50°	251.6	234.0	222.8	215.4	209.8	207.0	205.5
52.5°	227.0	212.5	203.1	197.3	193.5	191.4	190.8
55°	195.5	184.5	178.5	173.4	170.6	168.7	168.0
57.5°	170.0	161.4	156.6	152.4	151.3	149.8	149.2
60°	153.2	146.6	142.5	139.7	138.7	136.9	137.2
62.5°	138.3	132.9	129.4	127.9	126.6	125.0	125.6
65°	117.0	113.0	111.1	109.7	108.2	107.3	108.0
67.5°	98.2	95.5	92.9	92.1	91.3	91.2	90.4
70°	85.9	83.7	81.4	80.8	80.8	80.1	79.9
72.5°	74.0	72.4	70.9	70.4	69.9	70.2	69.4
75°	57.2	55.8	55.3	54.7	54.6	54.6	54.0
77.5°	42.2	41.3	40.4	40.4	39.7	39.5	39.4
80°	32.1	31.7	31.0	31.0	30.6	30.7	30.3
82.5°	24.1	23.6	23.4	23.1	22.6	22.7	22.3
85°	12.9	12.4	12.2	11.6	11.2	11.6	11.2
87.5°	6.8	6.8	6.7	6.5	6.4	6.4	6.0
90°	11.7	12.4	12.8	13.0	13.2	13.4	13.5
92.5°	19.0	19.3	19.6	19.7	19.8	20.0	20.0
95°	35.3	35.6	35.7	35.7	35.7	35.7	35.7
97.5°	55.4	55.8	55.9	55.9	55.9	55.9	55.9
100°	69.7	69.9	70.0	70.0	70.0	70.0	70.0
102.5°	85.2	85.4	85.6	85.7	85.8	85.9	86.0
105°	108.4	108.8	109.0	109.3	109.6	110.0	110.3
107.5°	133.6	133.9	134.0	134.0	134.0	134.0	134.0
110°	149.9	149.6	149.7	150.0	150.3	150.6	150.9



TEST NUMBER: P332500-927

CATALOG NUMBER: S124DIP-S350D590U927-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	168.0	168.0	168.0	168.1	168.1	168.2	168.3
115°	195.8	195.7	195.6	195.5	195.4	195.3	195.2
117.5°	222.3	221.9	221.7	221.4	221.3	221.0	220.9
120°	240.2	239.7	239.6	239.8	240.0	240.2	240.3
122.5°	258.8	258.4	258.1	257.7	257.4	257.0	256.7
125°	285.8	285.7	285.4	285.3	285.0	284.9	284.6
127.5°	311.6	311.4	311.2	311.1	310.9	310.8	310.6
130°	329.7	329.5	329.2	328.8	328.4	328.0	327.6
132.5°	346.7	346.5	346.3	346.1	345.9	345.8	345.6
135°	372.2	371.9	371.7	371.4	371.1	370.8	370.5
137.5°	396.7	396.5	396.3	396.4	396.5	396.6	396.6
140°	413.1	413.0	412.9	412.8	412.7	412.6	412.5
142.5°	428.6	428.5	428.5	428.5	428.5	428.4	428.4
145°	451.5	451.4	451.2	450.9	450.6	450.3	450.0
147.5°	472.5	472.4	472.3	472.2	472.1	472.0	471.9
150°	485.7	485.7	485.7	485.5	485.4	485.4	485.3
152.5°	498.4	498.6	498.6	498.4	498.0	497.8	497.6
155°	515.8	516.3	516.3	515.8	515.4	515.0	514.6
157.5°	531.0	531.3	531.2	530.9	530.6	530.2	529.9
160°	540.3	540.7	540.6	540.1	539.6	539.1	538.6
162.5°	549.1	549.6	549.6	549.1	548.6	548.1	547.6
165°	560.2	560.9	560.9	560.5	560.2	559.8	559.4
167.5°	569.7	570.3	570.2	569.7	569.0	568.4	567.8
170°	574.7	575.3	575.3	574.6	573.9	573.1	572.4
172.5°	578.6	579.2	579.2	578.5	577.8	577.1	576.5
175°	582.7	583.4	583.4	582.7	582.0	581.3	580.6
177.5°	584.8	585.3	585.3	584.7	584.1	583.4	582.7
180°	584.2	584.2	584.2	584.2	584.2	584.2	584.2

(END OF REPORT)