

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: P332509-930

Luminaire Tested: **SA4XXDIP-C350D810U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332509-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 810 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3574.1 lumens  
Efficiency: N/A  
Efficacy: 114.6 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: Semi-Indirect

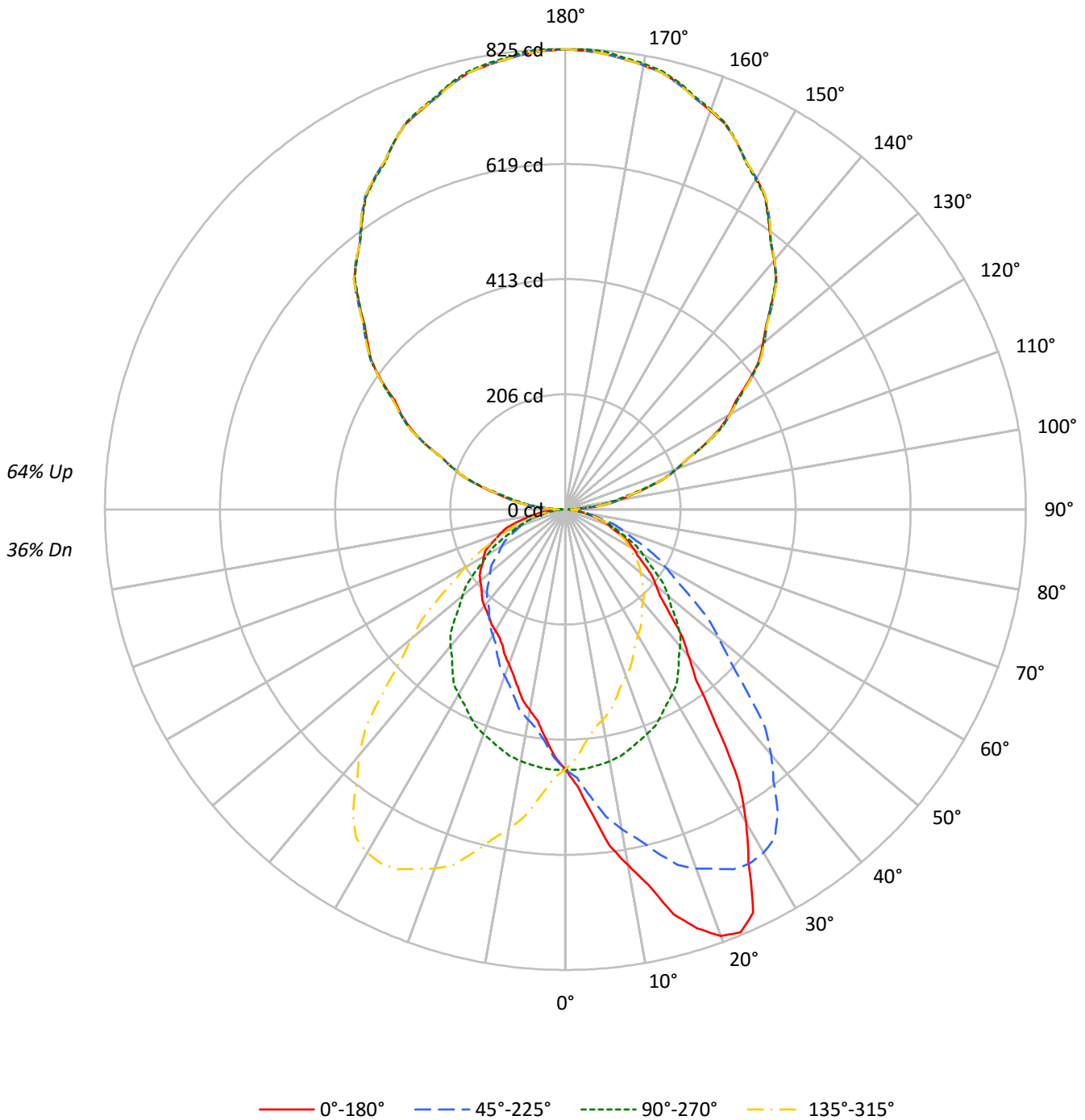
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332509-930

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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36				36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	38	38	37	31				31
2	86	79	73	68	78	72	67	63	58	55	52	46	43	41	34	33	31	26				26
3	79	70	63	57	71	63	57	53	52	47	44	41	38	35	30	28	27	22				22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19				19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20	17				17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15				15
7	56	44	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13				13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12				12
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	11				11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10				10

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

	0°	90°	180°	270°
0°	3760	3760	3760	3760
5°	4428	3770	3327	3770
10°	5302	3754	2995	3754
15°	6273	3716	2751	3716
20°	6985	3677	2533	3677
25°	7098	3619	2382	3619
30°	6040	3566	2335	3566
35°	4644	3476	2335	3476
40°	3620	3371	2380	3371
45°	3017	3214	2419	3214
50°	2656	3022	2501	3022
55°	2434	2792	2601	2792
60°	2280	2585	2722	2585
65°	2122	2355	2823	2355
70°	1940	2127	2887	2127
75°	1734	1871	2854	1871
80°	1450	1534	2762	1534
85°	1074	1112	2640	1112



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.4	1.3
10°-20°	139.9	3.9
20°-30°	221.8	6.2
30°-40°	246.8	6.9
40°-50°	224.7	6.3
50°-60°	183.6	5.1
60°-70°	131.1	3.7
70°-80°	72.2	2.0
80°-90°	22.2	0.6
90°-100°	54.4	1.5
100°-110°	161.0	4.5
110°-120°	273.3	7.6
120°-130°	360.4	10.1
130°-140°	404.7	11.3
140°-150°	397.7	11.1
150°-160°	334.5	9.4
160°-170°	222.6	6.2
170°-180°	77.9	2.2
0°-30°	407.0	11.4
0°-40°	653.9	18.3
0°-60°	1062.2	29.7
0°-90°	1287.6	36.0
90°-120°	488.7	13.7
90°-150°	1651.5	46.2
90°-180°	2287.0	64.0
0°-180°	3574.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	466	466	466	466	466	
5°	546	465	411	465	546	56
15°	751	445	329	445	751	212
25°	797	406	267	406	797	351
35°	471	353	237	353	471	299
45°	264	282	212	282	264	208
55°	173	198	185	198	173	156
65°	111	123	148	123	111	110
75°	56	60	92	60	56	59
85°	12	12	28	12	12	15
90°	19	2	19	2	19	10
95°	50	38	50	38	50	52
105°	156	148	156	148	156	164
115°	275	278	275	278	275	272
125°	402	405	402	405	402	358
135°	523	522	523	522	523	404
145°	635	634	635	634	635	397
155°	726	727	726	727	726	334
165°	789	791	789	791	789	222
175°	819	823	819	823	819	78
180°	824	824	824	824	824	



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	495.7	495.6	494.1	493.7	492.7	491.3	491.0	488.4	483.6	481.2	480.6
5°	546.4	550.3	545.3	544.3	543.7	537.4	534.1	530.3	521.4	516.2	512.1
7.5°	607.0	607.4	605.2	603.5	598.5	593.0	584.7	575.8	565.2	554.2	545.9
10°	646.8	648.3	645.8	645.5	635.6	629.4	617.1	606.7	594.7	581.4	569.2
12.5°	688.8	686.6	685.3	677.1	675.2	664.0	649.6	639.0	620.4	605.1	589.0
15°	750.6	746.3	743.6	732.3	726.7	711.0	695.8	684.0	659.9	636.9	619.5
17.5°	786.8	791.1	784.9	780.2	765.7	754.7	739.2	714.4	695.6	667.1	645.1
20°	813.1	813.5	810.0	805.2	793.9	779.9	763.0	736.0	713.4	685.0	654.8
22.5°	820.2	820.3	818.8	814.3	805.7	794.4	777.3	754.7	727.4	696.6	666.4
25°	796.9	796.1	797.9	802.9	799.6	796.1	786.3	769.5	744.0	711.4	679.0
27.5°	710.3	715.7	725.5	737.8	749.7	758.7	761.2	757.8	742.1	715.3	681.3
30°	647.9	654.5	661.9	674.2	698.1	711.8	726.8	738.3	731.9	710.5	678.8
32.5°	579.4	581.1	591.9	605.9	627.9	654.2	678.1	701.2	708.9	697.7	671.2
35°	471.2	473.9	485.7	499.5	526.4	558.6	594.5	626.6	653.0	663.6	650.0
37.5°	384.5	392.2	400.6	415.5	439.1	468.1	505.4	546.9	586.3	612.7	617.2
40°	343.5	348.3	354.2	365.7	385.7	414.3	446.3	493.7	535.7	573.5	585.8
42.5°	311.0	313.9	317.6	327.8	343.1	371.5	400.8	442.5	484.5	529.8	550.5
45°	264.3	267.3	273.5	279.4	291.0	310.6	337.9	372.2	414.5	458.0	496.3
47.5°	230.6	232.4	236.1	242.6	252.4	265.4	287.5	316.2	355.3	397.7	438.4
50°	211.5	213.0	215.9	221.7	229.3	240.8	258.9	285.8	316.4	359.1	399.0
52.5°	196.3	197.0	199.1	203.0	209.0	218.7	233.7	255.8	284.4	322.4	362.2
55°	172.9	173.7	175.6	178.5	183.7	189.9	201.2	217.8	242.7	275.7	310.3
57.5°	153.6	154.2	155.7	156.9	161.2	166.2	175.0	186.8	205.6	233.7	264.5
60°	141.2	140.9	142.8	143.7	146.7	150.9	157.7	169.0	185.4	208.0	236.4
62.5°	129.2	128.7	130.3	131.6	133.2	136.8	142.4	151.2	164.6	185.0	209.5
65°	111.1	110.4	111.4	112.9	114.4	116.3	120.4	128.3	138.9	153.6	172.3
67.5°	93.0	93.8	94.0	94.7	95.6	98.2	101.0	106.6	114.1	125.9	141.7
70°	82.2	82.4	83.2	83.2	83.7	86.1	88.4	91.6	99.0	109.8	122.7
72.5°	71.4	72.2	71.9	72.5	73.0	74.5	76.1	79.3	85.5	93.6	104.5
75°	55.6	56.2	56.2	56.3	56.9	57.5	58.9	61.1	65.6	71.6	79.1
77.5°	40.5	40.6	40.8	41.6	41.6	42.5	43.5	45.3	47.5	51.6	56.3
80°	31.2	31.6	31.5	31.9	31.9	32.6	33.0	35.3	36.3	39.0	42.6
82.5°	22.9	23.3	23.2	23.8	24.1	24.3	24.8	25.8	26.7	29.1	30.6
85°	11.6	12.0	11.6	12.0	12.6	12.7	13.3	13.5	14.3	14.8	16.2
87.5°	7.3	7.7	7.6	7.7	7.9	8.0	7.9	7.6	8.1	8.1	8.5
90°	19.2	18.8	18.6	18.3	18.0	17.4	16.6	15.7	14.8	14.0	12.9
92.5°	28.3	28.1	28.0	27.8	27.6	27.3	26.7	26.3	25.8	25.3	24.5
95°	50.4	50.4	50.4	50.4	50.4	50.1	49.7	49.3	48.8	48.4	47.5
97.5°	78.9	78.9	78.9	78.9	78.9	78.7	78.1	77.6	77.1	76.6	75.4
100°	98.8	98.8	98.8	98.8	98.8	98.7	98.4	98.1	97.8	97.5	96.2
102.5°	121.2	121.2	121.0	120.9	120.7	120.5	120.1	119.8	119.4	119.0	117.8
105°	155.6	155.1	154.7	154.3	153.8	153.4	153.0	152.5	152.1	151.7	151.2
107.5°	188.9	189.0	189.0	189.0	189.1	188.8	188.4	188.1	187.7	187.3	187.2
110°	212.9	212.5	212.1	211.7	211.2	211.1	211.4	211.7	212.0	212.2	212.4



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	237.3	237.3	237.2	237.1	237.0	237.0	237.1	237.1	237.2	237.3	237.5
115°	275.3	275.5	275.7	275.8	275.9	276.1	276.2	276.3	276.5	276.6	276.9
117.5°	311.5	311.9	312.1	312.4	312.7	313.1	313.6	314.1	314.5	315.0	315.2
120°	339.1	338.8	338.5	338.3	337.9	338.2	338.8	339.6	340.3	341.0	341.4
122.5°	362.1	362.6	363.1	363.5	364.1	364.6	365.1	365.5	366.0	366.5	366.7
125°	401.5	401.9	402.1	402.4	402.7	403.0	403.2	403.6	403.8	404.1	404.2
127.5°	438.1	438.4	438.6	438.8	439.0	439.3	439.6	439.9	440.2	440.4	440.7
130°	462.1	462.7	463.3	463.8	464.4	464.8	465.0	465.4	465.6	465.9	465.9
132.5°	487.6	487.8	488.0	488.3	488.5	488.8	489.0	489.3	489.6	489.9	490.0
135°	522.7	523.1	523.5	523.9	524.3	524.7	525.0	525.3	525.5	525.9	525.9
137.5°	559.5	559.4	559.3	559.2	559.1	559.3	559.7	560.0	560.4	560.8	560.5
140°	582.0	582.0	582.2	582.4	582.5	582.6	582.8	582.9	583.1	583.2	583.2
142.5°	604.4	604.4	604.5	604.5	604.5	604.5	604.5	604.5	604.6	604.6	604.7
145°	634.9	635.3	635.7	636.1	636.5	636.8	637.0	637.1	637.2	637.4	637.2
147.5°	665.7	665.9	665.9	666.1	666.3	666.3	666.5	666.6	666.8	666.8	666.9
150°	684.5	684.7	684.9	685.0	685.1	685.2	685.2	685.2	685.2	685.2	685.2
152.5°	701.9	702.3	702.6	703.0	703.4	703.4	703.0	702.7	702.4	702.1	701.9
155°	726.0	726.5	727.1	727.7	728.2	728.2	727.7	727.1	726.5	726.0	726.1
157.5°	747.5	748.0	748.5	749.0	749.4	749.5	749.1	748.6	748.2	747.8	747.8
160°	759.8	760.5	761.2	761.9	762.6	762.7	762.3	761.9	761.5	761.1	761.2
162.5°	772.5	773.2	774.0	774.6	775.3	775.3	774.5	773.8	773.1	772.3	772.4
165°	789.1	789.6	790.2	790.8	791.3	791.2	790.4	789.5	788.6	787.8	788.1
167.5°	801.0	801.8	802.7	803.6	804.5	804.5	803.6	802.7	801.9	801.0	801.0
170°	807.6	808.5	809.6	810.6	811.5	811.6	810.7	809.9	809.0	808.2	808.0
172.5°	813.2	814.2	815.1	816.2	817.2	817.2	816.2	815.2	814.2	813.3	813.3
175°	819.0	820.0	821.0	822.0	823.0	823.0	822.0	821.0	820.0	819.0	819.2
177.5°	822.1	823.0	823.9	824.8	825.7	825.8	825.0	824.2	823.4	822.6	822.6
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	480.8	478.6	477.0	475.8	472.5	470.4	468.9	466.8	464.2	461.6	458.4
5°	508.0	501.5	496.7	489.3	482.4	476.6	470.6	465.2	458.7	451.5	446.3
7.5°	536.7	526.9	514.5	503.6	491.4	480.8	471.3	461.6	451.5	441.6	432.7
10°	555.0	542.4	528.5	512.1	496.7	483.0	470.3	457.9	445.9	434.0	423.7
12.5°	574.5	558.9	538.3	519.2	501.9	483.6	468.2	453.1	438.6	426.1	414.2
15°	600.9	578.3	554.6	528.9	506.1	484.7	463.7	444.6	428.4	411.7	400.1
17.5°	617.0	589.1	562.0	535.2	507.6	480.5	457.9	435.9	415.6	399.1	384.5
20°	627.7	599.9	566.1	539.3	506.5	478.7	452.5	428.0	406.8	389.2	374.1
22.5°	636.9	604.9	571.0	535.7	503.1	473.6	444.9	420.3	398.6	380.1	365.7
25°	642.0	605.1	568.4	533.3	496.3	461.4	435.3	406.3	383.2	363.7	348.3
27.5°	642.5	603.1	561.6	522.6	484.4	451.8	419.0	393.1	369.1	348.5	333.6
30°	640.8	599.7	555.1	512.9	474.5	439.2	410.6	382.5	357.9	337.5	322.0
32.5°	635.4	592.6	546.8	502.1	462.3	427.7	398.3	371.5	347.6	327.4	311.2
35°	619.8	577.5	528.7	482.2	441.5	406.6	379.9	352.7	328.8	309.7	294.1
37.5°	595.3	557.2	507.5	459.4	419.4	384.3	357.9	333.4	311.8	292.4	276.4
40°	574.1	540.5	490.6	443.8	400.6	367.2	342.5	319.9	298.5	280.1	264.9
42.5°	549.5	520.2	474.3	424.7	382.9	349.4	325.4	305.1	284.9	268.0	252.7
45°	505.7	486.4	443.2	397.3	353.8	322.2	299.3	281.5	264.6	247.9	235.2
47.5°	455.4	445.8	409.4	365.8	324.7	293.4	273.5	257.1	242.2	228.2	217.0
50°	421.6	416.9	385.6	343.5	304.1	274.8	254.7	240.6	227.9	215.6	204.9
52.5°	388.2	388.1	359.7	321.2	284.8	256.6	236.6	223.5	212.5	202.4	192.9
55°	337.3	342.7	320.5	286.2	253.6	228.0	210.1	198.4	190.6	182.4	175.2
57.5°	290.5	299.5	281.1	250.9	223.6	200.2	184.6	175.8	167.5	162.5	157.3
60°	259.9	268.4	254.1	228.7	203.0	183.0	168.0	160.1	153.0	149.5	145.9
62.5°	232.8	240.3	229.8	206.1	183.8	164.5	152.0	144.4	139.6	135.8	133.4
65°	194.0	200.3	191.2	174.1	154.9	139.5	129.3	123.3	118.7	117.2	114.4
67.5°	156.8	162.6	157.7	143.1	127.8	116.0	108.0	102.3	99.5	98.2	96.3
70°	134.7	140.5	135.3	122.5	110.7	100.9	93.4	90.1	87.2	86.7	84.0
72.5°	116.0	119.9	114.7	104.8	94.7	86.4	80.6	77.1	75.7	74.6	73.1
75°	87.0	90.5	87.0	79.3	72.2	66.4	61.4	60.0	58.3	57.7	56.7
77.5°	61.6	64.6	62.0	57.2	51.8	47.3	44.6	42.9	42.5	41.5	42.0
80°	47.0	49.0	46.5	43.2	39.0	35.9	34.0	33.0	31.9	31.5	32.2
82.5°	33.8	34.7	33.3	31.1	28.0	26.0	24.7	23.6	23.3	23.4	23.4
85°	17.5	17.4	17.2	15.2	14.3	13.0	12.1	12.0	11.7	12.1	12.6
87.5°	8.2	8.2	7.7	6.8	6.1	5.3	4.9	4.4	4.9	5.3	5.8
90°	11.7	10.6	9.5	8.2	6.6	5.1	3.5	1.9	3.5	5.1	6.6
92.5°	23.6	22.8	22.1	20.8	19.0	17.2	15.4	13.6	15.4	17.2	19.0
95°	46.5	45.5	44.5	43.4	42.1	40.8	39.5	38.2	39.5	40.8	42.1
97.5°	74.3	73.1	72.0	70.8	69.9	68.8	67.8	66.8	67.8	68.8	69.9
100°	95.0	93.7	92.5	91.5	90.9	90.3	89.8	89.3	89.8	90.3	90.9
102.5°	116.6	115.4	114.3	113.6	113.4	113.2	112.9	112.7	112.9	113.2	113.4
105°	150.6	150.0	149.4	149.1	149.0	148.8	148.6	148.5	148.6	148.8	149.0
107.5°	187.1	187.0	186.9	186.8	186.6	186.5	186.3	186.1	186.3	186.5	186.6
110°	212.5	212.7	212.8	212.7	212.5	212.1	211.9	211.7	211.9	212.1	212.5





TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	237.7	238.0	238.2	238.4	238.3	238.2	238.1	238.1	238.1	238.2	238.3
115°	277.2	277.4	277.8	277.9	277.9	277.9	277.9	277.9	277.9	277.9	277.9
117.5°	315.4	315.6	315.8	315.8	315.7	315.6	315.5	315.4	315.5	315.6	315.7
120°	341.9	342.3	342.7	342.7	342.1	341.5	341.0	340.4	341.0	341.5	342.1
122.5°	366.9	367.1	367.3	367.3	367.0	366.8	366.6	366.4	366.6	366.8	367.0
125°	404.4	404.6	404.6	404.7	404.7	404.7	404.7	404.7	404.7	404.7	404.7
127.5°	440.9	441.1	441.3	441.2	440.8	440.4	439.9	439.5	439.9	440.4	440.8
130°	465.9	465.9	465.9	465.7	465.3	464.9	464.5	464.0	464.5	464.9	465.3
132.5°	490.2	490.2	490.3	490.2	489.9	489.7	489.3	489.0	489.3	489.7	489.9
135°	525.9	525.9	525.9	525.5	524.6	523.7	522.9	522.0	522.9	523.7	524.6
137.5°	560.4	560.1	559.9	559.5	559.1	558.7	558.4	558.0	558.4	558.7	559.1
140°	583.2	583.2	583.2	583.1	582.8	582.5	582.2	582.0	582.2	582.5	582.8
142.5°	604.9	605.0	605.1	605.0	604.7	604.5	604.1	603.9	604.1	604.5	604.7
145°	637.1	637.0	636.8	636.5	635.9	635.4	634.8	634.2	634.8	635.4	635.9
147.5°	667.1	667.2	667.3	667.0	666.3	665.6	665.0	664.3	665.0	665.6	666.3
150°	685.2	685.2	685.2	684.9	684.4	683.8	683.2	682.7	683.2	683.8	684.4
152.5°	701.8	701.6	701.6	701.3	701.0	700.7	700.3	700.0	700.3	700.7	701.0
155°	726.3	726.4	726.5	726.6	726.6	726.6	726.6	726.6	726.6	726.6	726.6
157.5°	747.9	747.9	747.9	748.0	748.3	748.5	748.8	749.1	748.8	748.5	748.3
160°	761.3	761.5	761.6	761.7	761.9	762.1	762.1	762.3	762.1	762.1	761.9
162.5°	772.6	772.7	772.8	773.1	773.5	773.8	774.2	774.5	774.2	773.8	773.5
165°	788.4	788.6	789.0	789.3	789.7	790.2	790.6	791.0	790.6	790.2	789.7
167.5°	801.0	801.0	801.0	801.3	801.8	802.4	803.0	803.6	803.0	802.4	801.8
170°	808.0	807.8	807.6	808.0	808.6	809.3	810.1	810.7	810.1	809.3	808.6
172.5°	813.3	813.3	813.2	813.5	814.1	814.6	815.3	815.9	815.3	814.6	814.1
175°	819.3	819.5	819.6	820.0	820.8	821.4	822.1	822.9	822.1	821.4	820.8
177.5°	822.6	822.6	822.6	822.9	823.5	824.0	824.6	825.2	824.6	824.0	823.5
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	456.8	455.4	453.5	450.7	448.3	445.9	445.2	444.3	446.2	444.7	444.2
5°	441.9	437.8	432.6	426.6	423.1	418.2	417.2	415.2	413.3	413.1	411.2
7.5°	426.0	420.0	413.2	407.2	401.5	396.0	392.4	391.7	388.8	387.1	385.2
10°	415.8	408.5	400.6	394.8	388.2	382.5	378.4	376.1	374.1	372.0	370.1
12.5°	403.8	396.0	389.5	383.2	375.4	371.0	364.4	360.4	360.0	360.0	355.0
15°	389.8	382.0	372.0	363.1	358.9	350.4	346.7	342.1	339.2	336.3	334.0
17.5°	373.7	364.1	356.3	346.1	338.0	331.3	326.4	323.7	319.3	315.2	312.3
20°	363.7	353.5	345.2	334.4	325.5	317.2	313.2	309.3	306.1	302.6	299.3
22.5°	353.5	342.8	332.7	322.2	314.0	305.2	301.3	296.0	292.9	291.0	287.7
25°	337.5	325.9	314.3	304.3	295.8	288.0	282.9	278.8	275.3	273.8	271.7
27.5°	320.0	308.5	297.3	285.9	276.3	270.7	266.5	263.5	261.5	259.4	258.4
30°	308.9	296.9	285.0	274.3	265.5	259.9	256.1	254.0	252.4	251.4	250.5
32.5°	297.7	285.8	273.3	263.6	255.6	250.6	247.7	245.6	244.8	244.5	244.1
35°	279.6	267.7	256.1	247.4	239.9	237.9	235.4	234.2	233.8	235.2	235.8
37.5°	262.1	251.0	240.4	232.0	227.0	224.2	223.3	223.4	224.8	225.9	227.3
40°	250.9	240.0	230.0	222.7	218.0	216.3	215.9	216.9	218.4	219.8	221.4
42.5°	239.9	229.3	220.1	213.3	210.0	208.4	208.6	209.6	211.8	213.4	215.7
45°	222.9	214.0	205.1	199.5	196.8	197.2	197.2	198.9	201.1	203.6	206.1
47.5°	206.8	197.9	190.6	185.9	184.5	184.2	185.2	187.5	190.5	193.6	197.1
50°	196.1	187.5	181.2	176.9	175.4	175.9	177.5	179.6	183.3	187.2	190.9
52.5°	185.1	177.3	171.5	167.5	166.4	167.5	169.0	172.4	175.6	179.8	184.2
55°	168.0	161.5	156.9	154.0	153.6	154.2	155.9	159.6	164.2	169.4	173.7
57.5°	151.2	145.6	141.4	139.4	139.6	140.1	143.0	147.3	152.3	157.8	163.3
60°	139.7	134.7	131.2	129.6	129.9	131.0	134.5	138.5	144.7	150.1	155.9
62.5°	128.9	124.5	121.2	119.8	119.5	122.1	125.4	129.6	135.7	141.8	148.1
65°	111.5	108.0	105.3	104.6	105.2	107.1	111.4	116.9	122.1	128.5	135.1
67.5°	94.6	91.7	89.8	90.2	90.9	93.8	97.3	102.1	108.0	114.6	121.1
70°	83.7	81.0	79.5	79.7	80.9	84.3	87.4	92.2	98.6	105.3	110.7
72.5°	72.6	70.8	69.5	70.3	71.4	73.8	77.7	82.5	88.1	94.4	100.1
75°	55.8	55.8	55.0	55.6	57.3	59.6	62.5	67.5	73.1	78.2	82.8
77.5°	41.3	40.9	41.4	42.2	43.1	45.9	49.2	52.8	57.0	62.0	65.9
80°	31.6	31.9	32.8	34.0	34.3	36.4	39.9	43.2	46.5	50.7	54.4
82.5°	23.8	24.0	24.5	25.9	26.3	28.6	30.8	34.1	37.1	39.9	43.0
85°	13.0	13.0	13.9	14.5	15.4	17.0	18.3	20.3	23.0	24.9	27.8
87.5°	6.6	6.8	7.7	8.2	8.9	9.9	10.4	12.2	13.0	13.9	15.5
90°	8.2	9.5	10.6	11.7	12.9	14.0	14.8	15.7	16.6	17.4	18.0
92.5°	20.8	22.1	22.8	23.6	24.5	25.3	25.8	26.3	26.7	27.3	27.6
95°	43.4	44.5	45.5	46.5	47.5	48.4	48.8	49.3	49.7	50.1	50.4
97.5°	70.8	72.0	73.1	74.3	75.4	76.6	77.1	77.6	78.1	78.7	78.9
100°	91.5	92.5	93.7	95.0	96.2	97.5	97.8	98.1	98.4	98.7	98.8
102.5°	113.6	114.3	115.4	116.6	117.8	119.0	119.4	119.8	120.1	120.5	120.7
105°	149.1	149.4	150.0	150.6	151.2	151.7	152.1	152.5	153.0	153.4	153.8
107.5°	186.8	186.9	187.0	187.1	187.2	187.3	187.7	188.1	188.4	188.8	189.1
110°	212.7	212.8	212.7	212.5	212.4	212.2	212.0	211.7	211.4	211.1	211.2



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	238.4	238.2	238.0	237.7	237.5	237.3	237.2	237.1	237.1	237.0	237.0
115°	277.9	277.8	277.4	277.2	276.9	276.6	276.5	276.3	276.2	276.1	275.9
117.5°	315.8	315.8	315.6	315.4	315.2	315.0	314.5	314.1	313.6	313.1	312.7
120°	342.7	342.7	342.3	341.9	341.4	341.0	340.3	339.6	338.8	338.2	337.9
122.5°	367.3	367.3	367.1	366.9	366.7	366.5	366.0	365.5	365.1	364.6	364.1
125°	404.7	404.6	404.6	404.4	404.2	404.1	403.8	403.6	403.2	403.0	402.7
127.5°	441.2	441.3	441.1	440.9	440.7	440.4	440.2	439.9	439.6	439.3	439.0
130°	465.7	465.9	465.9	465.9	465.9	465.9	465.6	465.4	465.0	464.8	464.4
132.5°	490.2	490.3	490.2	490.2	490.0	489.9	489.6	489.3	489.0	488.8	488.5
135°	525.5	525.9	525.9	525.9	525.9	525.9	525.5	525.3	525.0	524.7	524.3
137.5°	559.5	559.9	560.1	560.4	560.5	560.8	560.4	560.0	559.7	559.3	559.1
140°	583.1	583.2	583.2	583.2	583.2	583.2	583.1	582.9	582.8	582.6	582.5
142.5°	605.0	605.1	605.0	604.9	604.7	604.6	604.6	604.5	604.5	604.5	604.5
145°	636.5	636.8	637.0	637.1	637.2	637.4	637.2	637.1	637.0	636.8	636.5
147.5°	667.0	667.3	667.2	667.1	666.9	666.8	666.8	666.6	666.5	666.3	666.3
150°	684.9	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.2	685.1
152.5°	701.3	701.6	701.6	701.8	701.9	702.1	702.4	702.7	703.0	703.4	703.4
155°	726.6	726.5	726.4	726.3	726.1	726.0	726.5	727.1	727.7	728.2	728.2
157.5°	748.0	747.9	747.9	747.9	747.8	747.8	748.2	748.6	749.1	749.5	749.4
160°	761.7	761.6	761.5	761.3	761.2	761.1	761.5	761.9	762.3	762.7	762.6
162.5°	773.1	772.8	772.7	772.6	772.4	772.3	773.1	773.8	774.5	775.3	775.3
165°	789.3	789.0	788.6	788.4	788.1	787.8	788.6	789.5	790.4	791.2	791.3
167.5°	801.3	801.0	801.0	801.0	801.0	801.0	801.9	802.7	803.6	804.5	804.5
170°	808.0	807.6	807.8	808.0	808.0	808.2	809.0	809.9	810.7	811.6	811.5
172.5°	813.5	813.2	813.3	813.3	813.3	813.3	814.2	815.2	816.2	817.2	817.2
175°	820.0	819.6	819.5	819.3	819.2	819.0	820.0	821.0	822.0	823.0	823.0
177.5°	822.9	822.6	822.6	822.6	822.6	822.6	823.4	824.2	825.0	825.8	825.7
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	443.8	443.6	442.5	442.3	442.5	443.6	443.8	444.2	444.7	446.2	444.3
5°	410.0	409.0	408.5	410.6	408.5	409.0	410.0	411.2	413.1	413.3	415.2
7.5°	384.5	383.8	382.0	381.5	382.0	383.8	384.5	385.2	387.1	388.8	391.7
10°	368.2	367.4	365.8	365.4	365.8	367.4	368.2	370.1	372.0	374.1	376.1
12.5°	352.4	350.9	350.6	351.0	350.6	350.9	352.4	355.0	360.0	360.0	360.4
15°	331.5	330.7	328.6	329.2	328.6	330.7	331.5	334.0	336.3	339.2	342.1
17.5°	310.9	310.0	307.4	309.7	307.4	310.0	310.9	312.3	315.2	319.3	323.7
20°	297.9	296.4	295.1	294.8	295.1	296.4	297.9	299.3	302.6	306.1	309.3
22.5°	285.6	284.2	284.1	282.8	284.1	284.2	285.6	287.7	291.0	292.9	296.0
25°	270.1	268.8	268.4	267.4	268.4	268.8	270.1	271.7	273.8	275.3	278.8
27.5°	258.3	257.6	256.9	257.2	256.9	257.6	258.3	258.4	259.4	261.5	263.5
30°	251.0	250.9	250.5	250.5	250.5	250.9	251.0	250.5	251.4	252.4	254.0
32.5°	245.0	245.0	245.2	245.2	245.2	245.0	245.0	244.1	244.5	244.8	245.6
35°	236.6	237.2	237.5	236.9	237.5	237.2	236.6	235.8	235.2	233.8	234.2
37.5°	228.9	229.5	230.1	230.7	230.1	229.5	228.9	227.3	225.9	224.8	223.4
40°	223.1	224.4	224.8	225.8	224.8	224.4	223.1	221.4	219.8	218.4	216.9
42.5°	217.5	219.0	220.0	220.2	220.0	219.0	217.5	215.7	213.4	211.8	209.6
45°	209.0	210.5	211.9	211.9	211.9	210.5	209.0	206.1	203.6	201.1	198.9
47.5°	200.2	202.4	203.7	204.1	203.7	202.4	200.2	197.1	193.6	190.5	187.5
50°	194.1	196.8	198.2	199.1	198.2	196.8	194.1	190.9	187.2	183.3	179.6
52.5°	188.3	190.9	192.7	193.2	192.7	190.9	188.3	184.2	179.8	175.6	172.4
55°	178.1	182.0	184.1	184.8	184.1	182.0	178.1	173.7	169.4	164.2	159.6
57.5°	168.5	172.1	174.6	175.1	174.6	172.1	168.5	163.3	157.8	152.3	147.3
60°	161.1	165.0	168.0	168.6	168.0	165.0	161.1	155.9	150.1	144.7	138.5
62.5°	153.5	157.6	160.4	161.8	160.4	157.6	153.5	148.1	141.8	135.7	129.6
65°	140.5	144.6	147.2	147.8	147.2	144.6	140.5	135.1	128.5	122.1	116.9
67.5°	126.2	130.3	132.0	133.1	132.0	130.3	126.2	121.1	114.6	108.0	102.1
70°	116.2	119.4	121.4	122.3	121.4	119.4	116.2	110.7	105.3	98.6	92.2
72.5°	104.8	108.2	110.4	110.6	110.4	108.2	104.8	100.1	94.4	88.1	82.5
75°	87.2	90.3	91.5	91.5	91.5	90.3	87.2	82.8	78.2	73.1	67.5
77.5°	69.1	70.6	72.1	72.4	72.1	70.6	69.1	65.9	62.0	57.0	52.8
80°	57.3	58.3	59.4	59.4	59.4	58.3	57.3	54.4	50.7	46.5	43.2
82.5°	45.2	46.1	47.2	47.0	47.2	46.1	45.2	43.0	39.9	37.1	34.1
85°	27.4	29.1	28.9	28.5	28.9	29.1	27.4	27.8	24.9	23.0	20.3
87.5°	16.0	16.2	16.7	17.1	16.7	16.2	16.0	15.5	13.9	13.0	12.2
90°	18.3	18.6	18.8	19.2	18.8	18.6	18.3	18.0	17.4	16.6	15.7
92.5°	27.8	28.0	28.1	28.3	28.1	28.0	27.8	27.6	27.3	26.7	26.3
95°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.1	49.7	49.3
97.5°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.7	78.1	77.6
100°	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.7	98.4	98.1
102.5°	120.9	121.0	121.2	121.2	121.2	121.0	120.9	120.7	120.5	120.1	119.8
105°	154.3	154.7	155.1	155.6	155.1	154.7	154.3	153.8	153.4	153.0	152.5
107.5°	189.0	189.0	189.0	188.9	189.0	189.0	189.0	189.1	188.8	188.4	188.1
110°	211.7	212.1	212.5	212.9	212.5	212.1	211.7	211.2	211.1	211.4	211.7



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	237.1	237.2	237.3	237.3	237.3	237.2	237.1	237.0	237.0	237.1	237.1
115°	275.8	275.7	275.5	275.3	275.5	275.7	275.8	275.9	276.1	276.2	276.3
117.5°	312.4	312.1	311.9	311.5	311.9	312.1	312.4	312.7	313.1	313.6	314.1
120°	338.3	338.5	338.8	339.1	338.8	338.5	338.3	337.9	338.2	338.8	339.6
122.5°	363.5	363.1	362.6	362.1	362.6	363.1	363.5	364.1	364.6	365.1	365.5
125°	402.4	402.1	401.9	401.5	401.9	402.1	402.4	402.7	403.0	403.2	403.6
127.5°	438.8	438.6	438.4	438.1	438.4	438.6	438.8	439.0	439.3	439.6	439.9
130°	463.8	463.3	462.7	462.1	462.7	463.3	463.8	464.4	464.8	465.0	465.4
132.5°	488.3	488.0	487.8	487.6	487.8	488.0	488.3	488.5	488.8	489.0	489.3
135°	523.9	523.5	523.1	522.7	523.1	523.5	523.9	524.3	524.7	525.0	525.3
137.5°	559.2	559.3	559.4	559.5	559.4	559.3	559.2	559.1	559.3	559.7	560.0
140°	582.4	582.2	582.0	582.0	582.0	582.2	582.4	582.5	582.6	582.8	582.9
142.5°	604.5	604.5	604.4	604.4	604.4	604.5	604.5	604.5	604.5	604.5	604.5
145°	636.1	635.7	635.3	634.9	635.3	635.7	636.1	636.5	636.8	637.0	637.1
147.5°	666.1	665.9	665.9	665.7	665.9	665.9	666.1	666.3	666.3	666.5	666.6
150°	685.0	684.9	684.7	684.5	684.7	684.9	685.0	685.1	685.2	685.2	685.2
152.5°	703.0	702.6	702.3	701.9	702.3	702.6	703.0	703.4	703.4	703.0	702.7
155°	727.7	727.1	726.5	726.0	726.5	727.1	727.7	728.2	728.2	727.7	727.1
157.5°	749.0	748.5	748.0	747.5	748.0	748.5	749.0	749.4	749.5	749.1	748.6
160°	761.9	761.2	760.5	759.8	760.5	761.2	761.9	762.6	762.7	762.3	761.9
162.5°	774.6	774.0	773.2	772.5	773.2	774.0	774.6	775.3	775.3	774.5	773.8
165°	790.8	790.2	789.6	789.1	789.6	790.2	790.8	791.3	791.2	790.4	789.5
167.5°	803.6	802.7	801.8	801.0	801.8	802.7	803.6	804.5	804.5	803.6	802.7
170°	810.6	809.6	808.5	807.6	808.5	809.6	810.6	811.5	811.6	810.7	809.9
172.5°	816.2	815.1	814.2	813.2	814.2	815.1	816.2	817.2	817.2	816.2	815.2
175°	822.0	821.0	820.0	819.0	820.0	821.0	822.0	823.0	823.0	822.0	821.0
177.5°	824.8	823.9	823.0	822.1	823.0	823.9	824.8	825.7	825.8	825.0	824.2
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	445.2	445.9	448.3	450.7	453.5	455.4	456.8	458.4	461.6	464.2	466.8
5°	417.2	418.2	423.1	426.6	432.6	437.8	441.9	446.3	451.5	458.7	465.2
7.5°	392.4	396.0	401.5	407.2	413.2	420.0	426.0	432.7	441.6	451.5	461.6
10°	378.4	382.5	388.2	394.8	400.6	408.5	415.8	423.7	434.0	445.9	457.9
12.5°	364.4	371.0	375.4	383.2	389.5	396.0	403.8	414.2	426.1	438.6	453.1
15°	346.7	350.4	358.9	363.1	372.0	382.0	389.8	400.1	411.7	428.4	444.6
17.5°	326.4	331.3	338.0	346.1	356.3	364.1	373.7	384.5	399.1	415.6	435.9
20°	313.2	317.2	325.5	334.4	345.2	353.5	363.7	374.1	389.2	406.8	428.0
22.5°	301.3	305.2	314.0	322.2	332.7	342.8	353.5	365.7	380.1	398.6	420.3
25°	282.9	288.0	295.8	304.3	314.3	325.9	337.5	348.3	363.7	383.2	406.3
27.5°	266.5	270.7	276.3	285.9	297.3	308.5	320.0	333.6	348.5	369.1	393.1
30°	256.1	259.9	265.5	274.3	285.0	296.9	308.9	322.0	337.5	357.9	382.5
32.5°	247.7	250.6	255.6	263.6	273.3	285.8	297.7	311.2	327.4	347.6	371.5
35°	235.4	237.9	239.9	247.4	256.1	267.7	279.6	294.1	309.7	328.8	352.7
37.5°	223.3	224.2	227.0	232.0	240.4	251.0	262.1	276.4	292.4	311.8	333.4
40°	215.9	216.3	218.0	222.7	230.0	240.0	250.9	264.9	280.1	298.5	319.9
42.5°	208.6	208.4	210.0	213.3	220.1	229.3	239.9	252.7	268.0	284.9	305.1
45°	197.2	197.2	196.8	199.5	205.1	214.0	222.9	235.2	247.9	264.6	281.5
47.5°	185.2	184.2	184.5	185.9	190.6	197.9	206.8	217.0	228.2	242.2	257.1
50°	177.5	175.9	175.4	176.9	181.2	187.5	196.1	204.9	215.6	227.9	240.6
52.5°	169.0	167.5	166.4	167.5	171.5	177.3	185.1	192.9	202.4	212.5	223.5
55°	155.9	154.2	153.6	154.0	156.9	161.5	168.0	175.2	182.4	190.6	198.4
57.5°	143.0	140.1	139.6	139.4	141.4	145.6	151.2	157.3	162.5	167.5	175.8
60°	134.5	131.0	129.9	129.6	131.2	134.7	139.7	145.9	149.5	153.0	160.1
62.5°	125.4	122.1	119.5	119.8	121.2	124.5	128.9	133.4	135.8	139.6	144.4
65°	111.4	107.1	105.2	104.6	105.3	108.0	111.5	114.4	117.2	118.7	123.3
67.5°	97.3	93.8	90.9	90.2	89.8	91.7	94.6	96.3	98.2	99.5	102.3
70°	87.4	84.3	80.9	79.7	79.5	81.0	83.7	84.0	86.7	87.2	90.1
72.5°	77.7	73.8	71.4	70.3	69.5	70.8	72.6	73.1	74.6	75.7	77.1
75°	62.5	59.6	57.3	55.6	55.0	55.8	55.8	56.7	57.7	58.3	60.0
77.5°	49.2	45.9	43.1	42.2	41.4	40.9	41.3	42.0	41.5	42.5	42.9
80°	39.9	36.4	34.3	34.0	32.8	31.9	31.6	32.2	31.5	31.9	33.0
82.5°	30.8	28.6	26.3	25.9	24.5	24.0	23.8	23.4	23.4	23.3	23.6
85°	18.3	17.0	15.4	14.5	13.9	13.0	13.0	12.6	12.1	11.7	12.0
87.5°	10.4	9.9	8.9	8.2	7.7	6.8	6.6	5.8	5.3	4.9	4.4
90°	14.8	14.0	12.9	11.7	10.6	9.5	8.2	6.6	5.1	3.5	1.9
92.5°	25.8	25.3	24.5	23.6	22.8	22.1	20.8	19.0	17.2	15.4	13.6
95°	48.8	48.4	47.5	46.5	45.5	44.5	43.4	42.1	40.8	39.5	38.2
97.5°	77.1	76.6	75.4	74.3	73.1	72.0	70.8	69.9	68.8	67.8	66.8
100°	97.8	97.5	96.2	95.0	93.7	92.5	91.5	90.9	90.3	89.8	89.3
102.5°	119.4	119.0	117.8	116.6	115.4	114.3	113.6	113.4	113.2	112.9	112.7
105°	152.1	151.7	151.2	150.6	150.0	149.4	149.1	149.0	148.8	148.6	148.5
107.5°	187.7	187.3	187.2	187.1	187.0	186.9	186.8	186.6	186.5	186.3	186.1
110°	212.0	212.2	212.4	212.5	212.7	212.8	212.7	212.5	212.1	211.9	211.7



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.2	237.3	237.5	237.7	238.0	238.2	238.4	238.3	238.2	238.1	238.1
115°	276.5	276.6	276.9	277.2	277.4	277.8	277.9	277.9	277.9	277.9	277.9
117.5°	314.5	315.0	315.2	315.4	315.6	315.8	315.8	315.7	315.6	315.5	315.4
120°	340.3	341.0	341.4	341.9	342.3	342.7	342.7	342.1	341.5	341.0	340.4
122.5°	366.0	366.5	366.7	366.9	367.1	367.3	367.3	367.0	366.8	366.6	366.4
125°	403.8	404.1	404.2	404.4	404.6	404.6	404.7	404.7	404.7	404.7	404.7
127.5°	440.2	440.4	440.7	440.9	441.1	441.3	441.2	440.8	440.4	439.9	439.5
130°	465.6	465.9	465.9	465.9	465.9	465.9	465.7	465.3	464.9	464.5	464.0
132.5°	489.6	489.9	490.0	490.2	490.2	490.3	490.2	489.9	489.7	489.3	489.0
135°	525.5	525.9	525.9	525.9	525.9	525.9	525.5	524.6	523.7	522.9	522.0
137.5°	560.4	560.8	560.5	560.4	560.1	559.9	559.5	559.1	558.7	558.4	558.0
140°	583.1	583.2	583.2	583.2	583.2	583.2	583.1	582.8	582.5	582.2	582.0
142.5°	604.6	604.6	604.7	604.9	605.0	605.1	605.0	604.7	604.5	604.1	603.9
145°	637.2	637.4	637.2	637.1	637.0	636.8	636.5	635.9	635.4	634.8	634.2
147.5°	666.8	666.8	666.9	667.1	667.2	667.3	667.0	666.3	665.6	665.0	664.3
150°	685.2	685.2	685.2	685.2	685.2	685.2	684.9	684.4	683.8	683.2	682.7
152.5°	702.4	702.1	701.9	701.8	701.6	701.6	701.3	701.0	700.7	700.3	700.0
155°	726.5	726.0	726.1	726.3	726.4	726.5	726.6	726.6	726.6	726.6	726.6
157.5°	748.2	747.8	747.8	747.9	747.9	747.9	748.0	748.3	748.5	748.8	749.1
160°	761.5	761.1	761.2	761.3	761.5	761.6	761.7	761.9	762.1	762.1	762.3
162.5°	773.1	772.3	772.4	772.6	772.7	772.8	773.1	773.5	773.8	774.2	774.5
165°	788.6	787.8	788.1	788.4	788.6	789.0	789.3	789.7	790.2	790.6	791.0
167.5°	801.9	801.0	801.0	801.0	801.0	801.0	801.3	801.8	802.4	803.0	803.6
170°	809.0	808.2	808.0	808.0	807.8	807.6	808.0	808.6	809.3	810.1	810.7
172.5°	814.2	813.3	813.3	813.3	813.3	813.2	813.5	814.1	814.6	815.3	815.9
175°	820.0	819.0	819.2	819.3	819.5	819.6	820.0	820.8	821.4	822.1	822.9
177.5°	823.4	822.6	822.6	822.6	822.6	822.6	822.9	823.5	824.0	824.6	825.2
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	468.9	470.4	472.5	475.8	477.0	478.6	480.8	480.6	481.2	483.6	488.4
5°	470.6	476.6	482.4	489.3	496.7	501.5	508.0	512.1	516.2	521.4	530.3
7.5°	471.3	480.8	491.4	503.6	514.5	526.9	536.7	545.9	554.2	565.2	575.8
10°	470.3	483.0	496.7	512.1	528.5	542.4	555.0	569.2	581.4	594.7	606.7
12.5°	468.2	483.6	501.9	519.2	538.3	558.9	574.5	589.0	605.1	620.4	639.0
15°	463.7	484.7	506.1	528.9	554.6	578.3	600.9	619.5	636.9	659.9	684.0
17.5°	457.9	480.5	507.6	535.2	562.0	589.1	617.0	645.1	667.1	695.6	714.4
20°	452.5	478.7	506.5	539.3	566.1	599.9	627.7	654.8	685.0	713.4	736.0
22.5°	444.9	473.6	503.1	535.7	571.0	604.9	636.9	666.4	696.6	727.4	754.7
25°	435.3	461.4	496.3	533.3	568.4	605.1	642.0	679.0	711.4	744.0	769.5
27.5°	419.0	451.8	484.4	522.6	561.6	603.1	642.5	681.3	715.3	742.1	757.8
30°	410.6	439.2	474.5	512.9	555.1	599.7	640.8	678.8	710.5	731.9	738.3
32.5°	398.3	427.7	462.3	502.1	546.8	592.6	635.4	671.2	697.7	708.9	701.2
35°	379.9	406.6	441.5	482.2	528.7	577.5	619.8	650.0	663.6	653.0	626.6
37.5°	357.9	384.3	419.4	459.4	507.5	557.2	595.3	617.2	612.7	586.3	546.9
40°	342.5	367.2	400.6	443.8	490.6	540.5	574.1	585.8	573.5	535.7	493.7
42.5°	325.4	349.4	382.9	424.7	474.3	520.2	549.5	550.5	529.8	484.5	442.5
45°	299.3	322.2	353.8	397.3	443.2	486.4	505.7	496.3	458.0	414.5	372.2
47.5°	273.5	293.4	324.7	365.8	409.4	445.8	455.4	438.4	397.7	355.3	316.2
50°	254.7	274.8	304.1	343.5	385.6	416.9	421.6	399.0	359.1	316.4	285.8
52.5°	236.6	256.6	284.8	321.2	359.7	388.1	388.2	362.2	322.4	284.4	255.8
55°	210.1	228.0	253.6	286.2	320.5	342.7	337.3	310.3	275.7	242.7	217.8
57.5°	184.6	200.2	223.6	250.9	281.1	299.5	290.5	264.5	233.7	205.6	186.8
60°	168.0	183.0	203.0	228.7	254.1	268.4	259.9	236.4	208.0	185.4	169.0
62.5°	152.0	164.5	183.8	206.1	229.8	240.3	232.8	209.5	185.0	164.6	151.2
65°	129.3	139.5	154.9	174.1	191.2	200.3	194.0	172.3	153.6	138.9	128.3
67.5°	108.0	116.0	127.8	143.1	157.7	162.6	156.8	141.7	125.9	114.1	106.6
70°	93.4	100.9	110.7	122.5	135.3	140.5	134.7	122.7	109.8	99.0	91.6
72.5°	80.6	86.4	94.7	104.8	114.7	119.9	116.0	104.5	93.6	85.5	79.3
75°	61.4	66.4	72.2	79.3	87.0	90.5	87.0	79.1	71.6	65.6	61.1
77.5°	44.6	47.3	51.8	57.2	62.0	64.6	61.6	56.3	51.6	47.5	45.3
80°	34.0	35.9	39.0	43.2	46.5	49.0	47.0	42.6	39.0	36.3	35.3
82.5°	24.7	26.0	28.0	31.1	33.3	34.7	33.8	30.6	29.1	26.7	25.8
85°	12.1	13.0	14.3	15.2	17.2	17.4	17.5	16.2	14.8	14.3	13.5
87.5°	4.9	5.3	6.1	6.8	7.7	8.2	8.2	8.5	8.1	8.1	7.6
90°	3.5	5.1	6.6	8.2	9.5	10.6	11.7	12.9	14.0	14.8	15.7
92.5°	15.4	17.2	19.0	20.8	22.1	22.8	23.6	24.5	25.3	25.8	26.3
95°	39.5	40.8	42.1	43.4	44.5	45.5	46.5	47.5	48.4	48.8	49.3
97.5°	67.8	68.8	69.9	70.8	72.0	73.1	74.3	75.4	76.6	77.1	77.6
100°	89.8	90.3	90.9	91.5	92.5	93.7	95.0	96.2	97.5	97.8	98.1
102.5°	112.9	113.2	113.4	113.6	114.3	115.4	116.6	117.8	119.0	119.4	119.8
105°	148.6	148.8	149.0	149.1	149.4	150.0	150.6	151.2	151.7	152.1	152.5
107.5°	186.3	186.5	186.6	186.8	186.9	187.0	187.1	187.2	187.3	187.7	188.1
110°	211.9	212.1	212.5	212.7	212.8	212.7	212.5	212.4	212.2	212.0	211.7





TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	238.1	238.2	238.3	238.4	238.2	238.0	237.7	237.5	237.3	237.2	237.1
115°	277.9	277.9	277.9	277.9	277.8	277.4	277.2	276.9	276.6	276.5	276.3
117.5°	315.5	315.6	315.7	315.8	315.8	315.6	315.4	315.2	315.0	314.5	314.1
120°	341.0	341.5	342.1	342.7	342.7	342.3	341.9	341.4	341.0	340.3	339.6
122.5°	366.6	366.8	367.0	367.3	367.3	367.1	366.9	366.7	366.5	366.0	365.5
125°	404.7	404.7	404.7	404.7	404.6	404.6	404.4	404.2	404.1	403.8	403.6
127.5°	439.9	440.4	440.8	441.2	441.3	441.1	440.9	440.7	440.4	440.2	439.9
130°	464.5	464.9	465.3	465.7	465.9	465.9	465.9	465.9	465.9	465.6	465.4
132.5°	489.3	489.7	489.9	490.2	490.3	490.2	490.2	490.0	489.9	489.6	489.3
135°	522.9	523.7	524.6	525.5	525.9	525.9	525.9	525.9	525.9	525.5	525.3
137.5°	558.4	558.7	559.1	559.5	559.9	560.1	560.4	560.5	560.8	560.4	560.0
140°	582.2	582.5	582.8	583.1	583.2	583.2	583.2	583.2	583.2	583.1	582.9
142.5°	604.1	604.5	604.7	605.0	605.1	605.0	604.9	604.7	604.6	604.6	604.5
145°	634.8	635.4	635.9	636.5	636.8	637.0	637.1	637.2	637.4	637.2	637.1
147.5°	665.0	665.6	666.3	667.0	667.3	667.2	667.1	666.9	666.8	666.8	666.6
150°	683.2	683.8	684.4	684.9	685.2	685.2	685.2	685.2	685.2	685.2	685.2
152.5°	700.3	700.7	701.0	701.3	701.6	701.6	701.8	701.9	702.1	702.4	702.7
155°	726.6	726.6	726.6	726.6	726.5	726.4	726.3	726.1	726.0	726.5	727.1
157.5°	748.8	748.5	748.3	748.0	747.9	747.9	747.9	747.8	747.8	748.2	748.6
160°	762.1	762.1	761.9	761.7	761.6	761.5	761.3	761.2	761.1	761.5	761.9
162.5°	774.2	773.8	773.5	773.1	772.8	772.7	772.6	772.4	772.3	773.1	773.8
165°	790.6	790.2	789.7	789.3	789.0	788.6	788.4	788.1	787.8	788.6	789.5
167.5°	803.0	802.4	801.8	801.3	801.0	801.0	801.0	801.0	801.0	801.9	802.7
170°	810.1	809.3	808.6	808.0	807.6	807.8	808.0	808.0	808.2	809.0	809.9
172.5°	815.3	814.6	814.1	813.5	813.2	813.3	813.3	813.3	813.3	814.2	815.2
175°	822.1	821.4	820.8	820.0	819.6	819.5	819.3	819.2	819.0	820.0	821.0
177.5°	824.6	824.0	823.5	822.9	822.6	822.6	822.6	822.6	822.6	823.4	824.2
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1	824.1



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	491.0	491.3	492.7	493.7	494.1	495.6	495.7
5°	534.1	537.4	543.7	544.3	545.3	550.3	546.4
7.5°	584.7	593.0	598.5	603.5	605.2	607.4	607.0
10°	617.1	629.4	635.6	645.5	645.8	648.3	646.8
12.5°	649.6	664.0	675.2	677.1	685.3	686.6	688.8
15°	695.8	711.0	726.7	732.3	743.6	746.3	750.6
17.5°	739.2	754.7	765.7	780.2	784.9	791.1	786.8
20°	763.0	779.9	793.9	805.2	810.0	813.5	813.1
22.5°	777.3	794.4	805.7	814.3	818.8	820.3	820.2
25°	786.3	796.1	799.6	802.9	797.9	796.1	796.9
27.5°	761.2	758.7	749.7	737.8	725.5	715.7	710.3
30°	726.8	711.8	698.1	674.2	661.9	654.5	647.9
32.5°	678.1	654.2	627.9	605.9	591.9	581.1	579.4
35°	594.5	558.6	526.4	499.5	485.7	473.9	471.2
37.5°	505.4	468.1	439.1	415.5	400.6	392.2	384.5
40°	446.3	414.3	385.7	365.7	354.2	348.3	343.5
42.5°	400.8	371.5	343.1	327.8	317.6	313.9	311.0
45°	337.9	310.6	291.0	279.4	273.5	267.3	264.3
47.5°	287.5	265.4	252.4	242.6	236.1	232.4	230.6
50°	258.9	240.8	229.3	221.7	215.9	213.0	211.5
52.5°	233.7	218.7	209.0	203.0	199.1	197.0	196.3
55°	201.2	189.9	183.7	178.5	175.6	173.7	172.9
57.5°	175.0	166.2	161.2	156.9	155.7	154.2	153.6
60°	157.7	150.9	146.7	143.7	142.8	140.9	141.2
62.5°	142.4	136.8	133.2	131.6	130.3	128.7	129.2
65°	120.4	116.3	114.4	112.9	111.4	110.4	111.1
67.5°	101.0	98.2	95.6	94.7	94.0	93.8	93.0
70°	88.4	86.1	83.7	83.2	83.2	82.4	82.2
72.5°	76.1	74.5	73.0	72.5	71.9	72.2	71.4
75°	58.9	57.5	56.9	56.3	56.2	56.2	55.6
77.5°	43.5	42.5	41.6	41.6	40.8	40.6	40.5
80°	33.0	32.6	31.9	31.9	31.5	31.6	31.2
82.5°	24.8	24.3	24.1	23.8	23.2	23.3	22.9
85°	13.3	12.7	12.6	12.0	11.6	12.0	11.6
87.5°	7.9	8.0	7.9	7.7	7.6	7.7	7.3
90°	16.6	17.4	18.0	18.3	18.6	18.8	19.2
92.5°	26.7	27.3	27.6	27.8	28.0	28.1	28.3
95°	49.7	50.1	50.4	50.4	50.4	50.4	50.4
97.5°	78.1	78.7	78.9	78.9	78.9	78.9	78.9
100°	98.4	98.7	98.8	98.8	98.8	98.8	98.8
102.5°	120.1	120.5	120.7	120.9	121.0	121.2	121.2
105°	153.0	153.4	153.8	154.3	154.7	155.1	155.6
107.5°	188.4	188.8	189.1	189.0	189.0	189.0	188.9
110°	211.4	211.1	211.2	211.7	212.1	212.5	212.9



TEST NUMBER: P332509-930

CATALOG NUMBER: SA4XXDIP-C350D810U930-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	237.1	237.0	237.0	237.1	237.2	237.3	237.3
115°	276.2	276.1	275.9	275.8	275.7	275.5	275.3
117.5°	313.6	313.1	312.7	312.4	312.1	311.9	311.5
120°	338.8	338.2	337.9	338.3	338.5	338.8	339.1
122.5°	365.1	364.6	364.1	363.5	363.1	362.6	362.1
125°	403.2	403.0	402.7	402.4	402.1	401.9	401.5
127.5°	439.6	439.3	439.0	438.8	438.6	438.4	438.1
130°	465.0	464.8	464.4	463.8	463.3	462.7	462.1
132.5°	489.0	488.8	488.5	488.3	488.0	487.8	487.6
135°	525.0	524.7	524.3	523.9	523.5	523.1	522.7
137.5°	559.7	559.3	559.1	559.2	559.3	559.4	559.5
140°	582.8	582.6	582.5	582.4	582.2	582.0	582.0
142.5°	604.5	604.5	604.5	604.5	604.5	604.4	604.4
145°	637.0	636.8	636.5	636.1	635.7	635.3	634.9
147.5°	666.5	666.3	666.3	666.1	665.9	665.9	665.7
150°	685.2	685.2	685.1	685.0	684.9	684.7	684.5
152.5°	703.0	703.4	703.4	703.0	702.6	702.3	701.9
155°	727.7	728.2	728.2	727.7	727.1	726.5	726.0
157.5°	749.1	749.5	749.4	749.0	748.5	748.0	747.5
160°	762.3	762.7	762.6	761.9	761.2	760.5	759.8
162.5°	774.5	775.3	775.3	774.6	774.0	773.2	772.5
165°	790.4	791.2	791.3	790.8	790.2	789.6	789.1
167.5°	803.6	804.5	804.5	803.6	802.7	801.8	801.0
170°	810.7	811.6	811.5	810.6	809.6	808.5	807.6
172.5°	816.2	817.2	817.2	816.2	815.1	814.2	813.2
175°	822.0	823.0	823.0	822.0	821.0	820.0	819.0
177.5°	825.0	825.8	825.7	824.8	823.9	823.0	822.1
180°	824.1	824.1	824.1	824.1	824.1	824.1	824.1

(END OF REPORT)