

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: P332873-930

Luminaire Tested: **SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332873-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-18,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

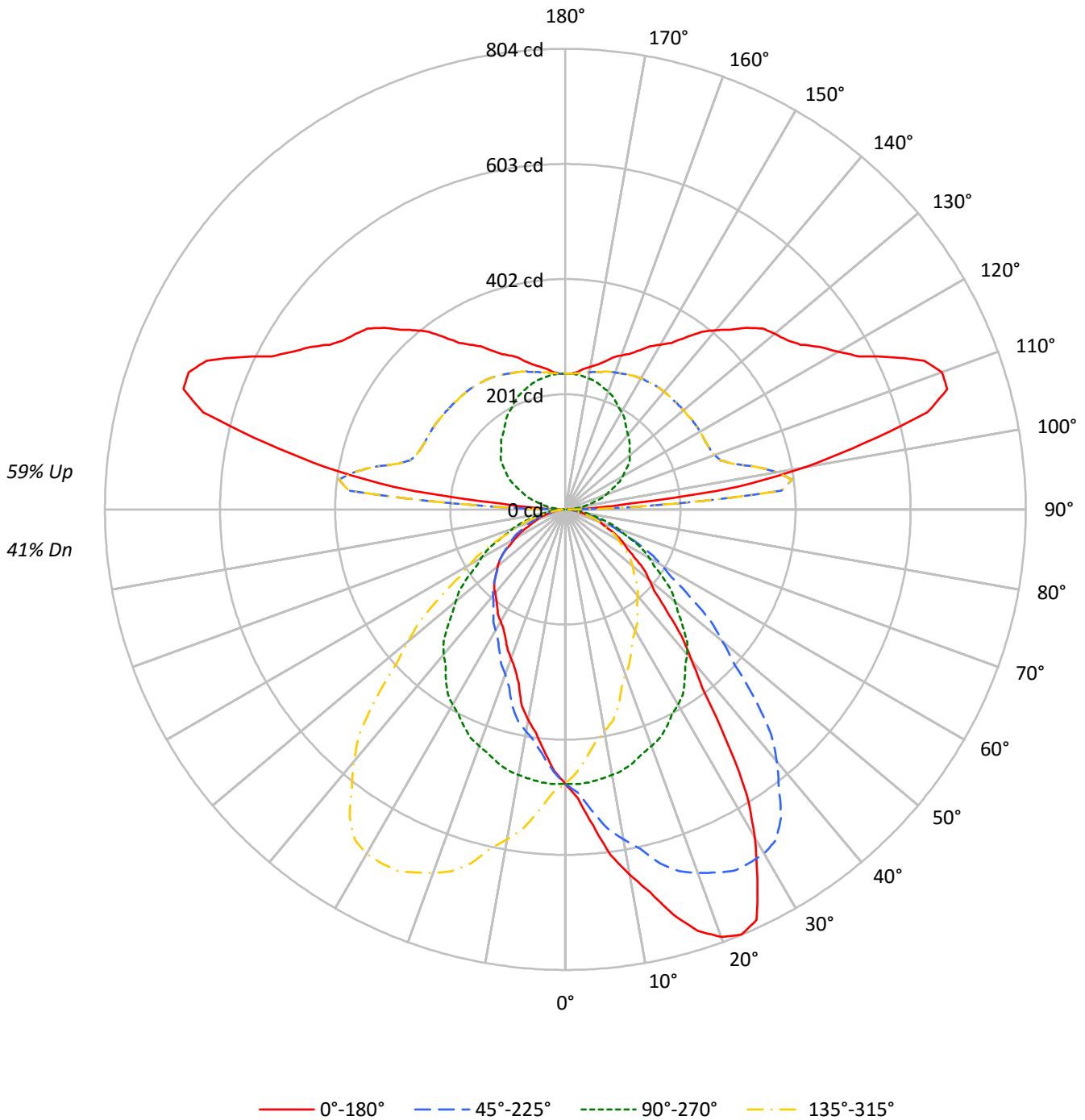
Lumens per Lamp: N/A  
Luminaire Lumens: 2933.6 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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: P332873-930  
CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**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	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	41
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	81	75	70	80	74	69	65	61	58	55	49	47	45	38	37	35	30
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	31	26
4	74	63	56	50	67	58	52	46	48	43	40	39	36	33	31	29	27	23
5	68	56	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18
7	58	46	38	33	53	42	35	31	36	30	27	29	25	22	23	21	18	16
8	54	42	34	29	49	38	32	27	32	27	24	27	23	20	21	19	17	14
9	50	38	31	26	45	35	29	24	30	25	21	25	21	18	20	17	15	13
10	47	35	28	23	43	32	26	22	27	22	19	23	19	16	18	16	14	12

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

	0°	90°	180°	270°
0°	3866	3866	3866	3866
5°	4485	3878	3428	3878
10°	5305	3861	3059	3861
15°	6128	3825	2629	3825
20°	6823	3776	2377	3776
25°	7044	3728	2207	3728
30°	6166	3669	2105	3669
35°	4800	3582	2042	3582
40°	3599	3483	2009	3483
45°	2842	3323	1991	3323
50°	2399	3141	1934	3141
55°	2090	2939	1830	2939
60°	1881	2729	1621	2729
65°	1658	2502	1394	2502
70°	1494	2268	1256	2268
75°	1251	2009	1070	2009
80°	1055	1715	1004	1715
85°	889	1343	889	1343



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	1.6
10°-20°	140.0	4.8
20°-30°	218.9	7.5
30°-40°	243.4	8.3
40°-50°	215.9	7.4
50°-60°	168.3	5.7
60°-70°	110.2	3.8
70°-80°	54.2	1.8
80°-90°	14.7	0.5
90°-100°	171.0	5.8
100°-110°	355.9	12.1
110°-120°	318.7	10.9
120°-130°	268.1	9.1
130°-140°	223.6	7.6
140°-150°	170.8	5.8
150°-160°	120.0	4.1
160°-170°	70.6	2.4
170°-180°	23.0	0.8
0°-30°	405.3	13.8
0°-40°	648.7	22.1
0°-60°	1032.9	35.2
0°-90°	1211.9	41.3
90°-120°	845.6	28.8
90°-150°	1508.1	51.4
90°-180°	1722.0	58.7
0°-180°	2933.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	479	479	479	479	479	
5°	553	478	423	478	553	56
15°	733	458	314	458	733	208
25°	791	418	248	418	791	351
35°	487	364	207	364	487	305
45°	249	291	174	291	249	197
55°	148	209	130	209	148	135
65°	87	131	73	131	87	87
75°	40	64	34	64	40	44
85°	10	14	10	14	10	11
90°	10	0	10	0	10	8
95°	114	15	114	15	114	176
105°	654	54	654	54	654	647
115°	628	96	628	96	628	624
125°	501	134	501	134	501	456
135°	448	159	448	159	448	346
145°	366	183	366	183	366	232
155°	306	208	306	208	306	143
165°	267	226	267	226	267	77
175°	241	236	241	236	241	23
180°	237	237	237	237	237	



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	505.2	506.5	505.2	505.0	503.4	503.0	502.4	500.3	496.7	494.5	495.0
5°	553.4	558.2	555.5	555.1	550.9	546.7	544.0	537.8	531.2	526.8	523.1
7.5°	609.2	612.0	610.3	607.6	600.7	596.8	590.5	582.4	570.6	561.7	553.4
10°	647.2	649.5	648.7	643.7	638.7	628.4	622.6	611.3	596.4	584.7	573.6
12.5°	684.5	687.0	680.2	680.4	670.9	662.8	653.7	639.4	622.2	607.1	593.3
15°	733.2	730.1	730.1	726.3	715.7	704.5	695.0	680.0	658.4	640.3	621.1
17.5°	771.4	772.4	770.9	761.7	753.4	741.8	724.5	706.9	686.9	662.5	643.0
20°	794.2	794.2	792.5	786.3	775.5	763.1	744.4	725.3	699.9	675.3	653.4
22.5°	803.5	804.0	802.0	797.0	787.3	775.2	759.2	739.8	713.5	686.0	658.8
25°	790.8	794.4	794.8	793.4	790.5	783.2	769.5	749.7	726.1	696.2	666.8
27.5°	725.9	730.6	734.7	741.4	750.2	754.8	755.5	745.3	724.8	696.0	666.5
30°	661.5	665.3	677.8	694.2	706.9	718.5	728.6	731.3	719.7	693.9	662.8
32.5°	589.8	595.1	607.6	625.3	646.5	666.1	688.6	700.1	699.8	684.3	655.6
35°	487.0	490.9	502.5	521.0	546.4	575.6	611.3	639.0	657.9	656.6	639.0
37.5°	392.8	397.1	408.8	424.2	448.9	484.9	519.5	557.8	592.7	612.4	606.5
40°	341.5	341.7	353.1	368.9	392.1	423.5	461.1	503.6	542.6	574.5	580.6
42.5°	301.1	301.1	308.7	325.7	342.3	371.9	407.9	450.0	495.7	532.5	548.8
45°	248.9	250.6	256.8	267.0	280.1	305.2	334.0	373.2	424.3	467.9	495.1
47.5°	210.8	213.4	217.3	225.6	236.0	252.7	276.5	311.8	353.4	401.3	440.0
50°	191.0	191.4	196.4	201.1	210.1	223.5	244.3	273.6	311.9	357.9	401.0
52.5°	174.1	174.0	177.0	182.9	190.2	200.6	217.4	244.1	278.0	319.4	363.8
55°	148.5	149.5	151.9	156.5	162.1	169.4	182.7	202.8	229.4	264.7	305.1
57.5°	129.2	129.7	131.5	133.5	138.6	144.0	153.9	167.9	190.3	219.2	256.8
60°	116.5	116.8	117.3	120.2	124.3	129.3	136.1	147.8	166.7	193.1	222.9
62.5°	104.2	104.5	105.4	107.5	110.7	114.1	121.2	130.7	146.3	168.9	195.7
65°	86.8	87.0	88.4	89.1	91.6	94.7	100.0	106.3	117.2	136.1	156.3
67.5°	72.6	72.6	72.6	73.7	75.4	77.5	80.6	85.7	93.8	105.4	123.3
70°	63.3	63.3	63.7	64.2	65.2	66.9	68.7	72.6	78.5	88.0	101.7
72.5°	54.6	54.8	55.2	55.3	55.8	57.2	58.5	61.0	65.4	72.6	83.6
75°	40.1	40.7	41.7	42.5	43.5	43.2	44.6	46.1	47.5	51.7	58.0
77.5°	29.8	29.6	29.7	30.3	30.4	30.7	31.6	32.8	33.8	35.8	38.1
80°	22.7	22.7	23.3	23.6	23.3	23.6	24.5	25.1	25.4	26.3	28.4
82.5°	17.2	17.5	17.4	17.5	17.6	17.9	18.7	18.8	19.2	19.5	20.3
85°	9.6	9.9	10.0	9.6	9.6	9.6	10.0	10.2	10.6	10.4	10.8
87.5°	5.4	5.2	5.5	5.4	5.4	5.2	5.3	5.5	5.1	5.4	5.2
90°	9.8	9.8	10.2	9.8	9.3	9.3	8.8	8.4	7.9	8.4	7.4
92.5°	35.8	35.8	37.4	39.9	45.4	54.7	68.7	91.3	122.9	147.5	129.1
95°	113.5	119.5	127.9	142.4	165.1	210.2	272.6	344.6	389.7	379.0	286.0
97.5°	303.3	313.0	326.9	355.0	388.3	436.9	482.4	509.2	489.7	399.3	267.7
100°	426.5	430.2	444.2	472.5	513.0	547.4	570.2	560.9	493.0	373.9	242.8
102.5°	533.6	536.6	551.3	571.9	596.7	611.1	604.5	558.3	465.0	342.3	226.0
105°	654.4	657.1	663.7	667.4	666.5	647.4	601.4	520.9	414.4	305.1	211.7
107.5°	699.2	698.0	693.3	682.7	659.7	618.3	553.4	467.8	373.5	284.3	209.0
110°	699.9	695.8	687.4	667.9	634.9	583.7	516.2	435.8	353.0	277.2	209.8



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	678.0	671.2	659.5	635.9	598.3	547.2	483.5	412.4	341.4	273.9	212.0
115°	628.4	624.6	609.8	581.8	545.1	500.4	446.1	388.8	330.7	272.1	216.3
117.5°	578.0	575.1	560.0	536.6	505.2	467.4	424.6	377.2	325.9	271.6	220.8
120°	549.8	544.6	532.6	512.1	485.5	452.5	415.3	372.1	323.3	271.6	224.2
122.5°	527.4	522.3	512.1	494.6	472.1	443.2	409.4	367.6	320.2	271.3	227.6
125°	501.3	498.6	489.8	476.2	457.6	432.0	400.0	360.0	315.4	270.7	232.5
127.5°	486.1	483.3	475.9	463.9	445.2	420.9	388.9	350.7	308.8	269.6	236.5
130°	477.2	474.4	466.9	455.3	436.3	411.6	380.0	343.2	304.6	269.3	239.5
132.5°	467.2	464.3	457.3	444.2	425.4	400.8	369.9	335.4	300.9	268.9	242.1
135°	448.3	445.6	438.1	425.1	406.5	383.2	354.9	324.7	295.3	268.3	246.1
137.5°	425.1	421.8	415.6	402.8	385.4	364.4	340.5	314.9	290.5	268.2	248.3
140°	408.4	404.6	398.1	387.9	371.6	352.0	331.2	309.2	287.9	267.9	250.2
142.5°	390.4	387.9	382.1	372.6	358.2	341.3	323.3	304.1	285.7	267.9	251.7
145°	366.0	363.7	359.1	351.1	339.5	326.5	312.5	296.7	281.8	266.9	252.6
147.5°	344.4	343.5	340.0	333.2	324.7	314.4	303.2	290.7	278.4	265.3	253.0
150°	332.1	331.6	328.8	322.8	315.4	307.0	297.7	287.0	275.8	264.2	253.0
152.5°	320.9	320.4	318.8	313.8	307.5	300.6	292.0	282.8	272.8	262.3	252.3
155°	306.5	306.5	305.1	301.4	296.7	291.1	284.1	276.7	268.3	259.5	251.1
157.5°	293.8	293.8	293.0	290.2	286.7	282.2	276.4	270.1	263.8	256.7	250.0
160°	286.0	286.0	285.6	282.7	280.0	276.2	271.2	266.0	260.5	254.4	248.8
162.5°	278.6	279.0	278.5	275.7	273.7	270.3	266.3	262.0	257.5	252.2	247.7
165°	267.4	267.9	268.3	266.5	264.6	262.3	259.0	256.2	252.6	248.8	245.6
167.5°	258.6	258.9	259.0	257.9	256.9	255.5	252.9	250.8	248.1	245.5	243.4
170°	253.0	253.0	253.5	253.0	252.1	250.7	248.8	247.4	245.1	243.2	241.8
172.5°	247.4	248.2	248.7	248.2	247.6	246.6	245.5	244.4	242.5	241.0	240.4
175°	240.9	241.8	242.8	241.8	241.8	241.8	240.9	240.4	239.5	238.6	238.6
177.5°	237.1	237.8	238.6	238.2	238.6	238.2	238.2	237.8	237.5	237.1	237.1
180°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	493.4	491.3	490.2	487.7	484.8	483.2	481.8	479.8	477.2	474.4	472.5
5°	518.4	513.8	508.0	501.1	495.0	488.9	483.7	478.5	472.5	466.4	460.2
7.5°	544.1	535.1	525.2	513.8	502.8	492.7	483.4	474.6	464.6	455.5	447.4
10°	562.1	549.8	536.1	521.5	507.1	494.6	482.2	471.0	458.7	447.7	438.4
12.5°	576.6	562.1	545.6	527.6	510.1	495.0	480.8	466.2	452.2	440.3	427.9
15°	600.6	580.8	558.6	537.0	514.5	493.7	474.7	457.7	441.6	424.9	413.1
17.5°	617.3	593.6	566.6	540.7	514.0	489.7	467.7	447.4	428.9	411.8	397.8
20°	627.1	601.0	571.1	541.6	511.7	485.7	461.9	439.5	420.4	401.9	387.4
22.5°	632.7	603.8	571.1	540.2	509.2	481.0	455.0	431.7	410.9	392.3	376.3
25°	634.5	603.6	570.2	534.7	500.8	470.8	443.8	418.5	395.3	376.8	359.9
27.5°	631.9	595.6	561.4	525.0	489.9	458.4	430.1	403.5	380.3	360.4	343.0
30°	628.3	589.3	552.6	514.8	479.3	449.0	419.1	393.6	369.5	348.9	331.3
32.5°	620.2	581.6	542.1	503.4	467.4	436.2	407.8	382.2	358.6	337.5	318.8
35°	604.3	565.2	522.4	482.6	447.3	414.8	388.2	363.5	341.0	318.4	298.7
37.5°	583.3	543.4	500.8	457.2	421.8	391.3	366.9	343.6	321.6	301.0	279.2
40°	563.6	527.2	483.1	439.9	403.7	374.1	351.6	330.5	308.3	287.9	266.1
42.5°	539.7	508.7	464.1	420.8	385.0	356.5	335.5	315.0	294.7	274.9	252.2
45°	499.8	476.2	434.6	392.9	356.8	328.6	309.3	291.1	273.5	254.5	233.1
47.5°	454.0	438.1	402.1	359.4	326.0	300.7	282.0	267.2	252.2	233.3	214.5
50°	422.2	412.0	377.2	338.3	306.4	283.1	264.0	250.1	237.5	219.4	202.6
52.5°	388.2	382.8	353.4	316.2	285.4	262.5	246.2	233.7	221.0	205.9	190.3
55°	336.5	339.4	314.5	282.3	253.3	234.1	219.2	208.8	198.0	185.2	173.1
57.5°	283.6	294.2	277.5	249.2	222.1	204.2	193.1	184.3	175.2	164.7	154.3
60°	252.0	260.9	251.4	226.5	202.8	186.2	175.8	169.0	160.0	150.3	142.4
62.5°	221.1	230.6	225.0	204.9	182.9	168.6	159.4	153.1	146.3	137.9	129.7
65°	182.4	188.5	185.8	171.9	156.3	144.1	135.7	131.0	124.8	118.7	111.4
67.5°	139.7	151.6	150.0	142.6	129.1	119.6	114.1	110.0	104.4	99.8	94.8
70°	114.8	125.8	125.6	119.6	112.3	103.5	99.5	96.1	91.1	86.7	82.6
72.5°	94.0	104.0	105.6	100.9	96.0	89.2	85.5	83.2	78.3	75.3	71.9
75°	65.8	73.1	75.1	75.1	72.7	69.3	66.0	64.4	61.0	58.3	56.3
77.5°	43.1	47.8	50.8	51.4	51.9	50.6	47.9	46.9	44.2	43.3	41.4
80°	30.5	33.6	37.0	38.2	39.1	38.8	37.7	36.9	34.3	33.3	32.6
82.5°	21.0	22.7	25.6	28.2	27.9	28.9	27.9	27.3	25.4	25.0	24.3
85°	11.0	11.2	11.6	13.3	14.3	14.7	14.8	14.5	13.9	13.9	12.6
87.5°	5.0	4.9	4.6	4.6	4.6	5.2	5.4	5.4	5.1	4.9	4.5
90°	6.5	6.5	3.8	3.8	3.3	2.8	1.4	0.5	1.4	2.8	3.3
92.5°	93.9	57.9	34.2	24.5	17.8	12.1	7.7	5.3	7.7	12.1	17.8
95°	174.9	98.6	58.1	38.6	27.5	21.4	16.7	15.3	16.7	21.4	27.5
97.5°	157.2	94.2	63.1	46.7	37.1	31.6	27.6	27.6	27.6	31.6	37.1
100°	147.9	95.3	67.9	53.0	44.2	38.6	35.4	35.4	35.4	38.6	44.2
102.5°	145.3	99.1	74.2	60.1	51.6	46.4	43.5	42.8	43.5	46.4	51.6
105°	146.5	107.9	85.6	72.1	63.8	58.1	55.8	54.4	55.8	58.1	63.8
107.5°	153.4	118.2	97.8	84.5	76.5	70.5	68.2	67.3	68.2	70.5	76.5
110°	158.6	126.0	105.6	93.0	84.6	79.1	76.7	75.8	76.7	79.1	84.6





TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	164.2	133.5	113.7	101.2	92.9	87.6	85.0	84.0	85.0	87.6	92.9
115°	173.0	145.1	126.5	114.0	105.1	100.4	97.2	95.8	97.2	100.4	105.1
117.5°	182.1	156.4	138.7	125.6	117.4	112.3	109.4	108.1	109.4	112.3	117.4
120°	188.3	164.2	146.5	133.5	125.6	120.4	117.2	116.3	117.2	120.4	125.6
122.5°	194.3	171.6	153.9	141.3	132.6	127.9	124.7	123.7	124.7	127.9	132.6
125°	203.3	181.8	165.1	152.1	143.2	138.1	135.3	133.5	135.3	138.1	143.2
127.5°	211.0	191.4	175.1	162.0	152.8	147.0	143.7	142.1	143.7	147.0	152.8
130°	215.8	197.6	181.8	168.4	159.6	152.5	148.8	147.0	148.8	152.5	159.6
132.5°	220.6	202.8	187.0	174.3	164.8	158.2	153.3	151.8	153.3	158.2	164.8
135°	227.0	210.2	194.9	182.8	173.0	165.1	160.5	158.6	160.5	165.1	173.0
137.5°	231.5	215.8	201.5	190.0	179.8	172.3	167.1	165.4	167.1	172.3	179.8
140°	234.4	219.6	205.5	194.4	184.7	176.8	171.6	170.2	171.6	176.8	184.7
142.5°	236.6	222.9	209.3	198.5	189.1	181.6	176.8	175.5	176.8	181.6	189.1
145°	239.0	226.5	214.4	204.2	195.3	188.8	184.2	182.8	184.2	188.8	195.3
147.5°	241.2	230.2	218.9	209.7	202.3	195.6	191.5	191.0	191.5	195.6	202.3
150°	242.3	232.1	221.8	213.0	206.0	200.5	196.7	196.2	196.7	200.5	206.0
152.5°	243.0	233.6	224.5	216.4	210.1	204.9	201.2	201.1	201.2	204.9	210.1
155°	243.7	235.8	227.9	220.9	215.8	211.2	208.4	207.9	208.4	211.2	215.8
157.5°	243.7	237.4	230.6	225.2	220.7	217.1	214.5	214.5	214.5	217.1	220.7
160°	243.7	238.1	232.5	227.4	223.7	220.5	218.6	218.6	218.6	220.5	223.7
162.5°	243.7	238.9	233.7	229.7	226.3	223.4	221.9	222.3	221.9	223.4	226.3
165°	242.8	239.0	234.9	232.1	229.8	227.4	226.5	226.5	226.5	227.4	229.8
167.5°	241.7	239.0	235.9	233.7	232.4	230.6	230.2	230.6	230.2	230.6	232.4
170°	240.9	238.6	236.3	234.9	233.9	232.5	232.1	232.5	232.1	232.5	233.9
172.5°	240.2	238.2	236.6	235.6	235.1	234.0	233.9	234.4	233.9	234.0	235.1
175°	239.0	237.7	236.8	236.8	236.3	235.8	235.8	236.3	235.8	235.8	236.3
177.5°	237.8	237.1	236.8	236.8	236.8	236.4	236.8	237.1	236.8	236.4	236.8
180°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	470.3	468.7	466.8	464.4	461.6	459.2	458.0	459.0	459.5	458.2	458.0
5°	455.9	451.1	447.3	441.5	436.8	433.0	430.3	429.1	429.5	426.4	425.7
7.5°	439.9	434.1	427.8	420.9	414.6	408.9	405.9	404.3	401.0	399.6	397.2
10°	429.5	421.8	415.6	407.5	400.1	393.5	390.1	387.4	384.2	382.6	379.4
12.5°	418.9	409.9	403.1	394.7	387.2	379.1	375.9	371.0	365.8	362.6	358.3
15°	403.8	393.1	384.7	374.7	365.8	356.6	348.3	339.0	335.6	328.2	324.0
17.5°	386.3	375.4	365.1	351.6	337.9	326.4	317.6	308.7	303.4	298.7	296.5
20°	374.7	364.7	350.4	334.8	319.5	306.8	299.6	293.8	288.0	284.8	282.5
22.5°	363.8	350.9	334.4	317.5	302.2	292.3	286.3	280.3	275.6	272.5	269.4
25°	345.4	328.6	311.0	291.7	281.4	272.6	266.1	261.2	258.4	254.3	252.7
27.5°	326.5	306.1	286.8	273.9	263.0	255.0	249.3	245.7	242.1	239.5	237.4
30°	312.0	291.4	274.0	261.6	250.6	244.1	239.5	235.2	232.3	230.2	228.7
32.5°	297.7	277.0	262.4	249.2	240.4	234.1	229.1	225.9	223.6	220.9	220.0
35°	276.9	258.5	245.8	233.8	225.0	219.2	215.3	212.1	210.1	209.4	208.8
37.5°	256.9	241.9	228.2	218.4	210.5	205.9	201.4	199.7	198.4	197.1	197.7
40°	244.3	230.2	218.0	207.7	201.2	196.2	193.6	191.6	190.5	190.5	190.5
42.5°	233.3	219.6	207.7	198.4	192.0	187.8	184.7	183.1	182.7	182.5	183.5
45°	216.3	203.6	191.6	183.8	178.5	174.2	172.5	171.1	171.1	171.9	172.1
47.5°	199.4	187.5	177.9	169.3	164.3	161.7	160.1	159.5	159.6	160.3	161.2
50°	189.1	177.3	167.9	160.1	155.6	153.0	151.6	151.2	151.6	151.6	153.0
52.5°	177.8	167.3	158.0	151.5	146.3	143.9	143.2	142.6	142.8	143.5	144.1
55°	161.3	151.9	143.0	136.8	133.0	131.4	129.6	129.9	129.5	129.9	129.9
57.5°	144.7	136.2	128.0	123.1	119.7	117.5	115.6	116.1	115.5	115.4	115.1
60°	134.1	124.8	118.3	113.8	110.0	108.0	106.3	106.7	106.2	105.7	104.9
62.5°	122.5	114.8	108.5	104.3	101.2	99.0	97.2	96.9	95.5	94.2	92.5
65°	105.7	99.4	93.8	89.8	86.8	85.1	83.7	82.6	79.7	76.6	75.1
67.5°	89.4	84.8	79.6	76.1	73.8	71.6	69.0	67.0	64.3	62.6	61.6
70°	78.9	74.5	70.0	66.8	64.2	62.1	59.3	57.9	55.9	55.2	54.2
72.5°	68.9	64.7	60.7	57.6	55.0	53.3	51.0	49.7	48.8	48.5	47.6
75°	53.6	50.4	47.3	44.6	42.5	41.3	40.4	39.4	39.0	37.3	36.3
77.5°	39.1	36.9	35.1	33.1	31.6	30.8	28.9	27.9	27.2	26.4	26.2
80°	30.5	28.9	27.0	25.8	23.7	23.0	22.2	22.0	21.8	21.6	21.4
82.5°	22.9	21.4	19.5	18.8	18.2	17.7	17.3	17.0	16.9	17.0	17.0
85°	11.6	10.8	10.8	10.6	10.4	10.2	10.0	10.0	9.9	10.0	9.9
87.5°	4.6	4.5	5.0	4.7	5.1	5.2	5.0	5.1	5.3	5.1	5.1
90°	3.8	3.8	6.5	6.5	7.4	8.4	7.9	8.4	8.8	9.3	9.3
92.5°	24.5	34.2	57.9	93.9	129.1	147.5	122.9	91.3	68.7	54.7	45.4
95°	38.6	58.1	98.6	174.9	286.0	379.0	389.7	344.6	272.6	210.2	165.1
97.5°	46.7	63.1	94.2	157.2	267.7	399.3	489.7	509.2	482.4	436.9	388.3
100°	53.0	67.9	95.3	147.9	242.8	373.9	493.0	560.9	570.2	547.4	513.0
102.5°	60.1	74.2	99.1	145.3	226.0	342.3	465.0	558.3	604.5	611.1	596.7
105°	72.1	85.6	107.9	146.5	211.7	305.1	414.4	520.9	601.4	647.4	666.5
107.5°	84.5	97.8	118.2	153.4	209.0	284.3	373.5	467.8	553.4	618.3	659.7
110°	93.0	105.6	126.0	158.6	209.8	277.2	353.0	435.8	516.2	583.7	634.9



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	101.2	113.7	133.5	164.2	212.0	273.9	341.4	412.4	483.5	547.2	598.3
115°	114.0	126.5	145.1	173.0	216.3	272.1	330.7	388.8	446.1	500.4	545.1
117.5°	125.6	138.7	156.4	182.1	220.8	271.6	325.9	377.2	424.6	467.4	505.2
120°	133.5	146.5	164.2	188.3	224.2	271.6	323.3	372.1	415.3	452.5	485.5
122.5°	141.3	153.9	171.6	194.3	227.6	271.3	320.2	367.6	409.4	443.2	472.1
125°	152.1	165.1	181.8	203.3	232.5	270.7	315.4	360.0	400.0	432.0	457.6
127.5°	162.0	175.1	191.4	211.0	236.5	269.6	308.8	350.7	388.9	420.9	445.2
130°	168.4	181.8	197.6	215.8	239.5	269.3	304.6	343.2	380.0	411.6	436.3
132.5°	174.3	187.0	202.8	220.6	242.1	268.9	300.9	335.4	369.9	400.8	425.4
135°	182.8	194.9	210.2	227.0	246.1	268.3	295.3	324.7	354.9	383.2	406.5
137.5°	190.0	201.5	215.8	231.5	248.3	268.2	290.5	314.9	340.5	364.4	385.4
140°	194.4	205.5	219.6	234.4	250.2	267.9	287.9	309.2	331.2	352.0	371.6
142.5°	198.5	209.3	222.9	236.6	251.7	267.9	285.7	304.1	323.3	341.3	358.2
145°	204.2	214.4	226.5	239.0	252.6	266.9	281.8	296.7	312.5	326.5	339.5
147.5°	209.7	218.9	230.2	241.2	253.0	265.3	278.4	290.7	303.2	314.4	324.7
150°	213.0	221.8	232.1	242.3	253.0	264.2	275.8	287.0	297.7	307.0	315.4
152.5°	216.4	224.5	233.6	243.0	252.3	262.3	272.8	282.8	292.0	300.6	307.5
155°	220.9	227.9	235.8	243.7	251.1	259.5	268.3	276.7	284.1	291.1	296.7
157.5°	225.2	230.6	237.4	243.7	250.0	256.7	263.8	270.1	276.4	282.2	286.7
160°	227.4	232.5	238.1	243.7	248.8	254.4	260.5	266.0	271.2	276.2	280.0
162.5°	229.7	233.7	238.9	243.7	247.7	252.2	257.5	262.0	266.3	270.3	273.7
165°	232.1	234.9	239.0	242.8	245.6	248.8	252.6	256.2	259.0	262.3	264.6
167.5°	233.7	235.9	239.0	241.7	243.4	245.5	248.1	250.8	252.9	255.5	256.9
170°	234.9	236.3	238.6	240.9	241.8	243.2	245.1	247.4	248.8	250.7	252.1
172.5°	235.6	236.6	238.2	240.2	240.4	241.0	242.5	244.4	245.5	246.6	247.6
175°	236.8	236.8	237.7	239.0	238.6	238.6	239.5	240.4	240.9	241.8	241.8
177.5°	236.8	236.8	237.1	237.8	237.1	237.1	237.5	237.8	238.2	238.2	238.6
180°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	457.1	457.5	456.4	456.1	456.4	457.5	457.1	458.0	458.2	459.5	459.0
5°	424.1	423.7	422.7	423.0	422.7	423.7	424.1	425.7	426.4	429.5	429.1
7.5°	395.8	394.4	394.8	393.2	394.8	394.4	395.8	397.2	399.6	401.0	404.3
10°	378.5	376.4	374.7	373.2	374.7	376.4	378.5	379.4	382.6	384.2	387.4
12.5°	355.0	353.1	350.8	351.2	350.8	353.1	355.0	358.3	362.6	365.8	371.0
15°	321.5	318.5	314.0	314.5	314.0	318.5	321.5	324.0	328.2	335.6	339.0
17.5°	293.1	293.1	291.0	291.6	291.0	293.1	293.1	296.5	298.7	303.4	308.7
20°	278.4	277.1	277.3	276.7	277.3	277.1	278.4	282.5	284.8	288.0	293.8
22.5°	268.2	266.6	265.2	264.1	265.2	266.6	268.2	269.4	272.5	275.6	280.3
25°	251.0	249.9	248.2	247.8	248.2	249.9	251.0	252.7	254.3	258.4	261.2
27.5°	235.9	235.7	235.0	234.1	235.0	235.7	235.9	237.4	239.5	242.1	245.7
30°	227.1	226.7	226.3	225.8	226.3	226.7	227.1	228.7	230.2	232.3	235.2
32.5°	219.2	219.0	218.6	218.7	218.6	219.0	219.2	220.0	220.9	223.6	225.9
35°	208.0	207.8	207.4	207.2	207.4	207.8	208.0	208.8	209.4	210.1	212.1
37.5°	197.5	198.0	197.8	197.7	197.8	198.0	197.5	197.7	197.1	198.4	199.7
40°	190.3	190.5	190.9	190.6	190.9	190.5	190.3	190.5	190.5	190.5	191.6
42.5°	184.3	184.3	184.8	184.2	184.8	184.3	184.3	183.5	182.5	182.7	183.1
45°	173.5	174.6	174.4	174.4	174.4	174.6	173.5	172.1	171.9	171.1	171.1
47.5°	161.7	162.7	163.0	162.9	163.0	162.7	161.7	161.2	160.3	159.6	159.5
50°	154.0	153.6	154.2	154.0	154.2	153.6	154.0	153.0	151.6	151.6	151.2
52.5°	144.6	144.6	144.6	144.4	144.6	144.6	144.6	144.1	143.5	142.8	142.6
55°	130.0	130.3	129.9	130.0	129.9	130.3	130.0	129.9	129.9	129.5	129.9
57.5°	114.3	113.4	113.7	113.3	113.7	113.4	114.3	115.1	115.4	115.5	116.1
60°	103.1	101.5	101.1	100.4	101.1	101.5	103.1	104.9	105.7	106.2	106.7
62.5°	90.4	89.3	88.0	88.6	88.0	89.3	90.4	92.5	94.2	95.5	96.9
65°	73.5	72.7	72.2	73.0	72.2	72.7	73.5	75.1	76.6	79.7	82.6
67.5°	60.8	60.4	60.4	60.1	60.4	60.4	60.8	61.6	62.6	64.3	67.0
70°	54.2	53.6	53.6	53.2	53.6	53.6	54.2	54.2	55.2	55.9	57.9
72.5°	47.5	46.9	47.0	46.8	47.0	46.9	47.5	47.6	48.5	48.8	49.7
75°	35.1	34.2	34.2	34.3	34.2	34.2	35.1	36.3	37.3	39.0	39.4
77.5°	26.2	26.0	26.3	25.9	26.3	26.0	26.2	26.2	26.4	27.2	27.9
80°	21.4	21.2	21.0	21.6	21.0	21.2	21.4	21.4	21.6	21.8	22.0
82.5°	16.6	16.6	16.6	17.3	16.6	16.6	16.6	17.0	17.0	16.9	17.0
85°	10.0	9.6	10.0	9.6	10.0	9.6	10.0	9.9	10.0	9.9	10.0
87.5°	5.5	5.5	5.2	5.4	5.2	5.5	5.5	5.1	5.1	5.3	5.1
90°	9.8	10.2	9.8	9.8	9.8	10.2	9.8	9.3	9.3	8.8	8.4
92.5°	39.9	37.4	35.8	35.8	35.8	37.4	39.9	45.4	54.7	68.7	91.3
95°	142.4	127.9	119.5	113.5	119.5	127.9	142.4	165.1	210.2	272.6	344.6
97.5°	355.0	326.9	313.0	303.3	313.0	326.9	355.0	388.3	436.9	482.4	509.2
100°	472.5	444.2	430.2	426.5	430.2	444.2	472.5	513.0	547.4	570.2	560.9
102.5°	571.9	551.3	536.6	533.6	536.6	551.3	571.9	596.7	611.1	604.5	558.3
105°	667.4	663.7	657.1	654.4	657.1	663.7	667.4	666.5	647.4	601.4	520.9
107.5°	682.7	693.3	698.0	699.2	698.0	693.3	682.7	659.7	618.3	553.4	467.8
110°	667.9	687.4	695.8	699.9	695.8	687.4	667.9	634.9	583.7	516.2	435.8



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	635.9	659.5	671.2	678.0	671.2	659.5	635.9	598.3	547.2	483.5	412.4
115°	581.8	609.8	624.6	628.4	624.6	609.8	581.8	545.1	500.4	446.1	388.8
117.5°	536.6	560.0	575.1	578.0	575.1	560.0	536.6	505.2	467.4	424.6	377.2
120°	512.1	532.6	544.6	549.8	544.6	532.6	512.1	485.5	452.5	415.3	372.1
122.5°	494.6	512.1	522.3	527.4	522.3	512.1	494.6	472.1	443.2	409.4	367.6
125°	476.2	489.8	498.6	501.3	498.6	489.8	476.2	457.6	432.0	400.0	360.0
127.5°	463.9	475.9	483.3	486.1	483.3	475.9	463.9	445.2	420.9	388.9	350.7
130°	455.3	466.9	474.4	477.2	474.4	466.9	455.3	436.3	411.6	380.0	343.2
132.5°	444.2	457.3	464.3	467.2	464.3	457.3	444.2	425.4	400.8	369.9	335.4
135°	425.1	438.1	445.6	448.3	445.6	438.1	425.1	406.5	383.2	354.9	324.7
137.5°	402.8	415.6	421.8	425.1	421.8	415.6	402.8	385.4	364.4	340.5	314.9
140°	387.9	398.1	404.6	408.4	404.6	398.1	387.9	371.6	352.0	331.2	309.2
142.5°	372.6	382.1	387.9	390.4	387.9	382.1	372.6	358.2	341.3	323.3	304.1
145°	351.1	359.1	363.7	366.0	363.7	359.1	351.1	339.5	326.5	312.5	296.7
147.5°	333.2	340.0	343.5	344.4	343.5	340.0	333.2	324.7	314.4	303.2	290.7
150°	322.8	328.8	331.6	332.1	331.6	328.8	322.8	315.4	307.0	297.7	287.0
152.5°	313.8	318.8	320.4	320.9	320.4	318.8	313.8	307.5	300.6	292.0	282.8
155°	301.4	305.1	306.5	306.5	306.5	305.1	301.4	296.7	291.1	284.1	276.7
157.5°	290.2	293.0	293.8	293.8	293.8	293.0	290.2	286.7	282.2	276.4	270.1
160°	282.7	285.6	286.0	286.0	286.0	285.6	282.7	280.0	276.2	271.2	266.0
162.5°	275.7	278.5	279.0	278.6	279.0	278.5	275.7	273.7	270.3	266.3	262.0
165°	266.5	268.3	267.9	267.4	267.9	268.3	266.5	264.6	262.3	259.0	256.2
167.5°	257.9	259.0	258.9	258.6	258.9	259.0	257.9	256.9	255.5	252.9	250.8
170°	253.0	253.5	253.0	253.0	253.0	253.5	253.0	252.1	250.7	248.8	247.4
172.5°	248.2	248.7	248.2	247.4	248.2	248.7	248.2	247.6	246.6	245.5	244.4
175°	241.8	242.8	241.8	240.9	241.8	242.8	241.8	241.8	241.8	240.9	240.4
177.5°	238.2	238.6	237.8	237.1	237.8	238.6	238.2	238.6	238.2	238.2	237.8
180°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	458.0	459.2	461.6	464.4	466.8	468.7	470.3	472.5	474.4	477.2	479.8
5°	430.3	433.0	436.8	441.5	447.3	451.1	455.9	460.2	466.4	472.5	478.5
7.5°	405.9	408.9	414.6	420.9	427.8	434.1	439.9	447.4	455.5	464.6	474.6
10°	390.1	393.5	400.1	407.5	415.6	421.8	429.5	438.4	447.7	458.7	471.0
12.5°	375.9	379.1	387.2	394.7	403.1	409.9	418.9	427.9	440.3	452.2	466.2
15°	348.3	356.6	365.8	374.7	384.7	393.1	403.8	413.1	424.9	441.6	457.7
17.5°	317.6	326.4	337.9	351.6	365.1	375.4	386.3	397.8	411.8	428.9	447.4
20°	299.6	306.8	319.5	334.8	350.4	364.7	374.7	387.4	401.9	420.4	439.5
22.5°	286.3	292.3	302.2	317.5	334.4	350.9	363.8	376.3	392.3	410.9	431.7
25°	266.1	272.6	281.4	291.7	311.0	328.6	345.4	359.9	376.8	395.3	418.5
27.5°	249.3	255.0	263.0	273.9	286.8	306.1	326.5	343.0	360.4	380.3	403.5
30°	239.5	244.1	250.6	261.6	274.0	291.4	312.0	331.3	348.9	369.5	393.6
32.5°	229.1	234.1	240.4	249.2	262.4	277.0	297.7	318.8	337.5	358.6	382.2
35°	215.3	219.2	225.0	233.8	245.8	258.5	276.9	298.7	318.4	341.0	363.5
37.5°	201.4	205.9	210.5	218.4	228.2	241.9	256.9	279.2	301.0	321.6	343.6
40°	193.6	196.2	201.2	207.7	218.0	230.2	244.3	266.1	287.9	308.3	330.5
42.5°	184.7	187.8	192.0	198.4	207.7	219.6	233.3	252.2	274.9	294.7	315.0
45°	172.5	174.2	178.5	183.8	191.6	203.6	216.3	233.1	254.5	273.5	291.1
47.5°	160.1	161.7	164.3	169.3	177.9	187.5	199.4	214.5	233.3	252.2	267.2
50°	151.6	153.0	155.6	160.1	167.9	177.3	189.1	202.6	219.4	237.5	250.1
52.5°	143.2	143.9	146.3	151.5	158.0	167.3	177.8	190.3	205.9	221.0	233.7
55°	129.6	131.4	133.0	136.8	143.0	151.9	161.3	173.1	185.2	198.0	208.8
57.5°	115.6	117.5	119.7	123.1	128.0	136.2	144.7	154.3	164.7	175.2	184.3
60°	106.3	108.0	110.0	113.8	118.3	124.8	134.1	142.4	150.3	160.0	169.0
62.5°	97.2	99.0	101.2	104.3	108.5	114.8	122.5	129.7	137.9	146.3	153.1
65°	83.7	85.1	86.8	89.8	93.8	99.4	105.7	111.4	118.7	124.8	131.0
67.5°	69.0	71.6	73.8	76.1	79.6	84.8	89.4	94.8	99.8	104.4	110.0
70°	59.3	62.1	64.2	66.8	70.0	74.5	78.9	82.6	86.7	91.1	96.1
72.5°	51.0	53.3	55.0	57.6	60.7	64.7	68.9	71.9	75.3	78.3	83.2
75°	40.4	41.3	42.5	44.6	47.3	50.4	53.6	56.3	58.3	61.0	64.4
77.5°	28.9	30.8	31.6	33.1	35.1	36.9	39.1	41.4	43.3	44.2	46.9
80°	22.2	23.0	23.7	25.8	27.0	28.9	30.5	32.6	33.3	34.3	36.9
82.5°	17.3	17.7	18.2	18.8	19.5	21.4	22.9	24.3	25.0	25.4	27.3
85°	10.0	10.2	10.4	10.6	10.8	10.8	11.6	12.6	13.9	13.9	14.5
87.5°	5.0	5.2	5.1	4.7	5.0	4.5	4.6	4.5	4.9	5.1	5.4
90°	7.9	8.4	7.4	6.5	6.5	3.8	3.8	3.3	2.8	1.4	0.5
92.5°	122.9	147.5	129.1	93.9	57.9	34.2	24.5	17.8	12.1	7.7	5.3
95°	389.7	379.0	286.0	174.9	98.6	58.1	38.6	27.5	21.4	16.7	15.3
97.5°	489.7	399.3	267.7	157.2	94.2	63.1	46.7	37.1	31.6	27.6	27.6
100°	493.0	373.9	242.8	147.9	95.3	67.9	53.0	44.2	38.6	35.4	35.4
102.5°	465.0	342.3	226.0	145.3	99.1	74.2	60.1	51.6	46.4	43.5	42.8
105°	414.4	305.1	211.7	146.5	107.9	85.6	72.1	63.8	58.1	55.8	54.4
107.5°	373.5	284.3	209.0	153.4	118.2	97.8	84.5	76.5	70.5	68.2	67.3
110°	353.0	277.2	209.8	158.6	126.0	105.6	93.0	84.6	79.1	76.7	75.8



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	341.4	273.9	212.0	164.2	133.5	113.7	101.2	92.9	87.6	85.0	84.0
115°	330.7	272.1	216.3	173.0	145.1	126.5	114.0	105.1	100.4	97.2	95.8
117.5°	325.9	271.6	220.8	182.1	156.4	138.7	125.6	117.4	112.3	109.4	108.1
120°	323.3	271.6	224.2	188.3	164.2	146.5	133.5	125.6	120.4	117.2	116.3
122.5°	320.2	271.3	227.6	194.3	171.6	153.9	141.3	132.6	127.9	124.7	123.7
125°	315.4	270.7	232.5	203.3	181.8	165.1	152.1	143.2	138.1	135.3	133.5
127.5°	308.8	269.6	236.5	211.0	191.4	175.1	162.0	152.8	147.0	143.7	142.1
130°	304.6	269.3	239.5	215.8	197.6	181.8	168.4	159.6	152.5	148.8	147.0
132.5°	300.9	268.9	242.1	220.6	202.8	187.0	174.3	164.8	158.2	153.3	151.8
135°	295.3	268.3	246.1	227.0	210.2	194.9	182.8	173.0	165.1	160.5	158.6
137.5°	290.5	268.2	248.3	231.5	215.8	201.5	190.0	179.8	172.3	167.1	165.4
140°	287.9	267.9	250.2	234.4	219.6	205.5	194.4	184.7	176.8	171.6	170.2
142.5°	285.7	267.9	251.7	236.6	222.9	209.3	198.5	189.1	181.6	176.8	175.5
145°	281.8	266.9	252.6	239.0	226.5	214.4	204.2	195.3	188.8	184.2	182.8
147.5°	278.4	265.3	253.0	241.2	230.2	218.9	209.7	202.3	195.6	191.5	191.0
150°	275.8	264.2	253.0	242.3	232.1	221.8	213.0	206.0	200.5	196.7	196.2
152.5°	272.8	262.3	252.3	243.0	233.6	224.5	216.4	210.1	204.9	201.2	201.1
155°	268.3	259.5	251.1	243.7	235.8	227.9	220.9	215.8	211.2	208.4	207.9
157.5°	263.8	256.7	250.0	243.7	237.4	230.6	225.2	220.7	217.1	214.5	214.5
160°	260.5	254.4	248.8	243.7	238.1	232.5	227.4	223.7	220.5	218.6	218.6
162.5°	257.5	252.2	247.7	243.7	238.9	233.7	229.7	226.3	223.4	221.9	222.3
165°	252.6	248.8	245.6	242.8	239.0	234.9	232.1	229.8	227.4	226.5	226.5
167.5°	248.1	245.5	243.4	241.7	239.0	235.9	233.7	232.4	230.6	230.2	230.6
170°	245.1	243.2	241.8	240.9	238.6	236.3	234.9	233.9	232.5	232.1	232.5
172.5°	242.5	241.0	240.4	240.2	238.2	236.6	235.6	235.1	234.0	233.9	234.4
175°	239.5	238.6	238.6	239.0	237.7	236.8	236.8	236.3	235.8	235.8	236.3
177.5°	237.5	237.1	237.1	237.8	237.1	236.8	236.8	236.8	236.4	236.8	237.1
180°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	481.8	483.2	484.8	487.7	490.2	491.3	493.4	495.0	494.5	496.7	500.3
5°	483.7	488.9	495.0	501.1	508.0	513.8	518.4	523.1	526.8	531.2	537.8
7.5°	483.4	492.7	502.8	513.8	525.2	535.1	544.1	553.4	561.7	570.6	582.4
10°	482.2	494.6	507.1	521.5	536.1	549.8	562.1	573.6	584.7	596.4	611.3
12.5°	480.8	495.0	510.1	527.6	545.6	562.1	576.6	593.3	607.1	622.2	639.4
15°	474.7	493.7	514.5	537.0	558.6	580.8	600.6	621.1	640.3	658.4	680.0
17.5°	467.7	489.7	514.0	540.7	566.6	593.6	617.3	643.0	662.5	686.9	706.9
20°	461.9	485.7	511.7	541.6	571.1	601.0	627.1	653.4	675.3	699.9	725.3
22.5°	455.0	481.0	509.2	540.2	571.1	603.8	632.7	658.8	686.0	713.5	739.8
25°	443.8	470.8	500.8	534.7	570.2	603.6	634.5	666.8	696.2	726.1	749.7
27.5°	430.1	458.4	489.9	525.0	561.4	595.6	631.9	666.5	696.0	724.8	745.3
30°	419.1	449.0	479.3	514.8	552.6	589.3	628.3	662.8	693.9	719.7	731.3
32.5°	407.8	436.2	467.4	503.4	542.1	581.6	620.2	655.6	684.3	699.8	700.1
35°	388.2	414.8	447.3	482.6	522.4	565.2	604.3	639.0	656.6	657.9	639.0
37.5°	366.9	391.3	421.8	457.2	500.8	543.4	583.3	606.5	612.4	592.7	557.8
40°	351.6	374.1	403.7	439.9	483.1	527.2	563.6	580.6	574.5	542.6	503.6
42.5°	335.5	356.5	385.0	420.8	464.1	508.7	539.7	548.8	532.5	495.7	450.0
45°	309.3	328.6	356.8	392.9	434.6	476.2	499.8	495.1	467.9	424.3	373.2
47.5°	282.0	300.7	326.0	359.4	402.1	438.1	454.0	440.0	401.3	353.4	311.8
50°	264.0	283.1	306.4	338.3	377.2	412.0	422.2	401.0	357.9	311.9	273.6
52.5°	246.2	262.5	285.4	316.2	353.4	382.8	388.2	363.8	319.4	278.0	244.1
55°	219.2	234.1	253.3	282.3	314.5	339.4	336.5	305.1	264.7	229.4	202.8
57.5°	193.1	204.2	222.1	249.2	277.5	294.2	283.6	256.8	219.2	190.3	167.9
60°	175.8	186.2	202.8	226.5	251.4	260.9	252.0	222.9	193.1	166.7	147.8
62.5°	159.4	168.6	182.9	204.9	225.0	230.6	221.1	195.7	168.9	146.3	130.7
65°	135.7	144.1	156.3	171.9	185.8	188.5	182.4	156.3	136.1	117.2	106.3
67.5°	114.1	119.6	129.1	142.6	150.0	151.6	139.7	123.3	105.4	93.8	85.7
70°	99.5	103.5	112.3	119.6	125.6	125.8	114.8	101.7	88.0	78.5	72.6
72.5°	85.5	89.2	96.0	100.9	105.6	104.0	94.0	83.6	72.6	65.4	61.0
75°	66.0	69.3	72.7	75.1	75.1	73.1	65.8	58.0	51.7	47.5	46.1
77.5°	47.9	50.6	51.9	51.4	50.8	47.8	43.1	38.1	35.8	33.8	32.8
80°	37.7	38.8	39.1	38.2	37.0	33.6	30.5	28.4	26.3	25.4	25.1
82.5°	27.9	28.9	27.9	28.2	25.6	22.7	21.0	20.3	19.5	19.2	18.8
85°	14.8	14.7	14.3	13.3	11.6	11.2	11.0	10.8	10.4	10.6	10.2
87.5°	5.4	5.2	4.6	4.6	4.6	4.9	5.0	5.2	5.4	5.1	5.5
90°	1.4	2.8	3.3	3.8	3.8	6.5	6.5	7.4	8.4	7.9	8.4
92.5°	7.7	12.1	17.8	24.5	34.2	57.9	93.9	129.1	147.5	122.9	91.3
95°	16.7	21.4	27.5	38.6	58.1	98.6	174.9	286.0	379.0	389.7	344.6
97.5°	27.6	31.6	37.1	46.7	63.1	94.2	157.2	267.7	399.3	489.7	509.2
100°	35.4	38.6	44.2	53.0	67.9	95.3	147.9	242.8	373.9	493.0	560.9
102.5°	43.5	46.4	51.6	60.1	74.2	99.1	145.3	226.0	342.3	465.0	558.3
105°	55.8	58.1	63.8	72.1	85.6	107.9	146.5	211.7	305.1	414.4	520.9
107.5°	68.2	70.5	76.5	84.5	97.8	118.2	153.4	209.0	284.3	373.5	467.8
110°	76.7	79.1	84.6	93.0	105.6	126.0	158.6	209.8	277.2	353.0	435.8





TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	85.0	87.6	92.9	101.2	113.7	133.5	164.2	212.0	273.9	341.4	412.4
115°	97.2	100.4	105.1	114.0	126.5	145.1	173.0	216.3	272.1	330.7	388.8
117.5°	109.4	112.3	117.4	125.6	138.7	156.4	182.1	220.8	271.6	325.9	377.2
120°	117.2	120.4	125.6	133.5	146.5	164.2	188.3	224.2	271.6	323.3	372.1
122.5°	124.7	127.9	132.6	141.3	153.9	171.6	194.3	227.6	271.3	320.2	367.6
125°	135.3	138.1	143.2	152.1	165.1	181.8	203.3	232.5	270.7	315.4	360.0
127.5°	143.7	147.0	152.8	162.0	175.1	191.4	211.0	236.5	269.6	308.8	350.7
130°	148.8	152.5	159.6	168.4	181.8	197.6	215.8	239.5	269.3	304.6	343.2
132.5°	153.3	158.2	164.8	174.3	187.0	202.8	220.6	242.1	268.9	300.9	335.4
135°	160.5	165.1	173.0	182.8	194.9	210.2	227.0	246.1	268.3	295.3	324.7
137.5°	167.1	172.3	179.8	190.0	201.5	215.8	231.5	248.3	268.2	290.5	314.9
140°	171.6	176.8	184.7	194.4	205.5	219.6	234.4	250.2	267.9	287.9	309.2
142.5°	176.8	181.6	189.1	198.5	209.3	222.9	236.6	251.7	267.9	285.7	304.1
145°	184.2	188.8	195.3	204.2	214.4	226.5	239.0	252.6	266.9	281.8	296.7
147.5°	191.5	195.6	202.3	209.7	218.9	230.2	241.2	253.0	265.3	278.4	290.7
150°	196.7	200.5	206.0	213.0	221.8	232.1	242.3	253.0	264.2	275.8	287.0
152.5°	201.2	204.9	210.1	216.4	224.5	233.6	243.0	252.3	262.3	272.8	282.8
155°	208.4	211.2	215.8	220.9	227.9	235.8	243.7	251.1	259.5	268.3	276.7
157.5°	214.5	217.1	220.7	225.2	230.6	237.4	243.7	250.0	256.7	263.8	270.1
160°	218.6	220.5	223.7	227.4	232.5	238.1	243.7	248.8	254.4	260.5	266.0
162.5°	221.9	223.4	226.3	229.7	233.7	238.9	243.7	247.7	252.2	257.5	262.0
165°	226.5	227.4	229.8	232.1	234.9	239.0	242.8	245.6	248.8	252.6	256.2
167.5°	230.2	230.6	232.4	233.7	235.9	239.0	241.7	243.4	245.5	248.1	250.8
170°	232.1	232.5	233.9	234.9	236.3	238.6	240.9	241.8	243.2	245.1	247.4
172.5°	233.9	234.0	235.1	235.6	236.6	238.2	240.2	240.4	241.0	242.5	244.4
175°	235.8	235.8	236.3	236.8	236.8	237.7	239.0	238.6	238.6	239.5	240.4
177.5°	236.8	236.4	236.8	236.8	236.8	237.1	237.8	237.1	237.1	237.5	237.8
180°	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	478.9	478.9	478.9	478.9	478.9	478.9	478.9
2.5°	502.4	503.0	503.4	505.0	505.2	506.5	505.2
5°	544.0	546.7	550.9	555.1	555.5	558.2	553.4
7.5°	590.5	596.8	600.7	607.6	610.3	612.0	609.2
10°	622.6	628.4	638.7	643.7	648.7	649.5	647.2
12.5°	653.7	662.8	670.9	680.4	680.2	687.0	684.5
15°	695.0	704.5	715.7	726.3	730.1	730.1	733.2
17.5°	724.5	741.8	753.4	761.7	770.9	772.4	771.4
20°	744.4	763.1	775.5	786.3	792.5	794.2	794.2
22.5°	759.2	775.2	787.3	797.0	802.0	804.0	803.5
25°	769.5	783.2	790.5	793.4	794.8	794.4	790.8
27.5°	755.5	754.8	750.2	741.4	734.7	730.6	725.9
30°	728.6	718.5	706.9	694.2	677.8	665.3	661.5
32.5°	688.6	666.1	646.5	625.3	607.6	595.1	589.8
35°	611.3	575.6	546.4	521.0	502.5	490.9	487.0
37.5°	519.5	484.9	448.9	424.2	408.8	397.1	392.8
40°	461.1	423.5	392.1	368.9	353.1	341.7	341.5
42.5°	407.9	371.9	342.3	325.7	308.7	301.1	301.1
45°	334.0	305.2	280.1	267.0	256.8	250.6	248.9
47.5°	276.5	252.7	236.0	225.6	217.3	213.4	210.8
50°	244.3	223.5	210.1	201.1	196.4	191.4	191.0
52.5°	217.4	200.6	190.2	182.9	177.0	174.0	174.1
55°	182.7	169.4	162.1	156.5	151.9	149.5	148.5
57.5°	153.9	144.0	138.6	133.5	131.5	129.7	129.2
60°	136.1	129.3	124.3	120.2	117.3	116.8	116.5
62.5°	121.2	114.1	110.7	107.5	105.4	104.5	104.2
65°	100.0	94.7	91.6	89.1	88.4	87.0	86.8
67.5°	80.6	77.5	75.4	73.7	72.6	72.6	72.6
70°	68.7	66.9	65.2	64.2	63.7	63.3	63.3
72.5°	58.5	57.2	55.8	55.3	55.2	54.8	54.6
75°	44.6	43.2	43.5	42.5	41.7	40.7	40.1
77.5°	31.6	30.7	30.4	30.3	29.7	29.6	29.8
80°	24.5	23.6	23.3	23.6	23.3	22.7	22.7
82.5°	18.7	17.9	17.6	17.5	17.4	17.5	17.2
85°	10.0	9.6	9.6	9.6	10.0	9.9	9.6
87.5°	5.3	5.2	5.4	5.4	5.5	5.2	5.4
90°	8.8	9.3	9.3	9.8	10.2	9.8	9.8
92.5°	68.7	54.7	45.4	39.9	37.4	35.8	35.8
95°	272.6	210.2	165.1	142.4	127.9	119.5	113.5
97.5°	482.4	436.9	388.3	355.0	326.9	313.0	303.3
100°	570.2	547.4	513.0	472.5	444.2	430.2	426.5
102.5°	604.5	611.1	596.7	571.9	551.3	536.6	533.6
105°	601.4	647.4	666.5	667.4	663.7	657.1	654.4
107.5°	553.4	618.3	659.7	682.7	693.3	698.0	699.2
110°	516.2	583.7	634.9	667.9	687.4	695.8	699.9



TEST NUMBER: P332873-930

CATALOG NUMBER: SA4XXRDIP-C350D590U930-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	483.5	547.2	598.3	635.9	659.5	671.2	678.0
115°	446.1	500.4	545.1	581.8	609.8	624.6	628.4
117.5°	424.6	467.4	505.2	536.6	560.0	575.1	578.0
120°	415.3	452.5	485.5	512.1	532.6	544.6	549.8
122.5°	409.4	443.2	472.1	494.6	512.1	522.3	527.4
125°	400.0	432.0	457.6	476.2	489.8	498.6	501.3
127.5°	388.9	420.9	445.2	463.9	475.9	483.3	486.1
130°	380.0	411.6	436.3	455.3	466.9	474.4	477.2
132.5°	369.9	400.8	425.4	444.2	457.3	464.3	467.2
135°	354.9	383.2	406.5	425.1	438.1	445.6	448.3
137.5°	340.5	364.4	385.4	402.8	415.6	421.8	425.1
140°	331.2	352.0	371.6	387.9	398.1	404.6	408.4
142.5°	323.3	341.3	358.2	372.6	382.1	387.9	390.4
145°	312.5	326.5	339.5	351.1	359.1	363.7	366.0
147.5°	303.2	314.4	324.7	333.2	340.0	343.5	344.4
150°	297.7	307.0	315.4	322.8	328.8	331.6	332.1
152.5°	292.0	300.6	307.5	313.8	318.8	320.4	320.9
155°	284.1	291.1	296.7	301.4	305.1	306.5	306.5
157.5°	276.4	282.2	286.7	290.2	293.0	293.8	293.8
160°	271.2	276.2	280.0	282.7	285.6	286.0	286.0
162.5°	266.3	270.3	273.7	275.7	278.5	279.0	278.6
165°	259.0	262.3	264.6	266.5	268.3	267.9	267.4
167.5°	252.9	255.5	256.9	257.9	259.0	258.9	258.6
170°	248.8	250.7	252.1	253.0	253.5	253.0	253.0
172.5°	245.5	246.6	247.6	248.2	248.7	248.2	247.4
175°	240.9	241.8	241.8	241.8	242.8	241.8	240.9
177.5°	238.2	238.2	238.6	238.2	238.6	237.8	237.1
180°	236.8	236.8	236.8	236.8	236.8	236.8	236.8

(END OF REPORT)