

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

Luminaire Tested: **SA4XXDIP-C350D810U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332509
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-C350D810U835-4F0-1E-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

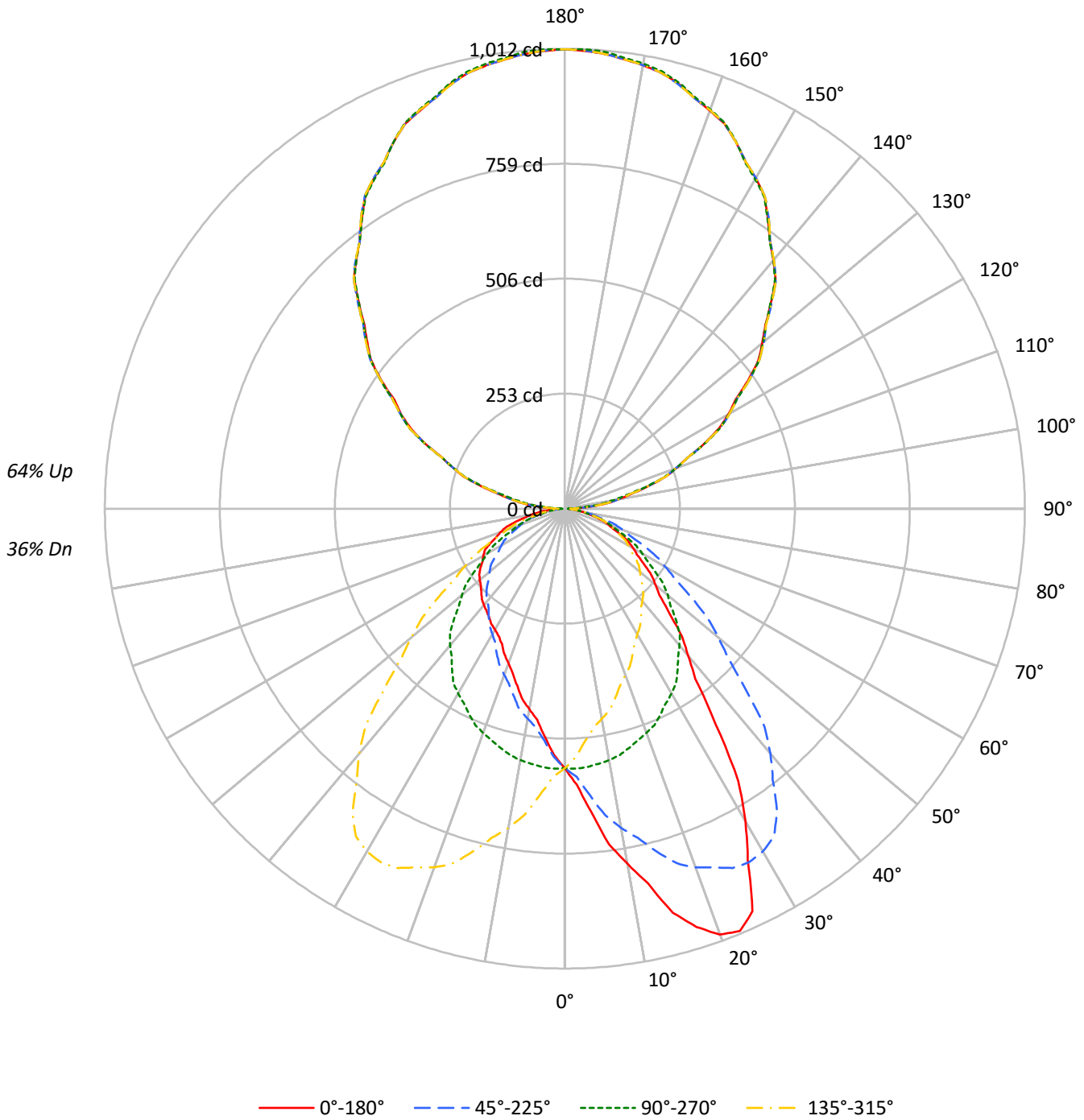
Lumens per Lamp: N/A
Luminaire Lumens: 4383.8 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4612	4612	4612	4612
5°	5431	4624	4081	4624
10°	6503	4604	3674	4604
15°	7694	4557	3375	4557
20°	8568	4509	3107	4509
25°	8706	4440	2922	4440
30°	7408	4373	2864	4373
35°	5695	4263	2864	4263
40°	4440	4135	2918	4135
45°	3701	3942	2967	3942
50°	3258	3706	3067	3706
55°	2985	3424	3191	3424
60°	2796	3171	3339	3171
65°	2604	2888	3463	2888
70°	2379	2608	3541	2608
75°	2127	2296	3500	2296
80°	1781	1883	3389	1883
85°	1315	1362	3242	1362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.3
10°-20°	171.6	3.9
20°-30°	272.0	6.2
30°-40°	302.8	6.9
40°-50°	275.6	6.3
50°-60°	225.2	5.1
60°-70°	160.8	3.7
70°-80°	88.5	2.0
80°-90°	27.2	0.6
90°-100°	66.7	1.5
100°-110°	197.5	4.5
110°-120°	335.2	7.6
120°-130°	442.0	10.1
130°-140°	496.4	11.3
140°-150°	487.8	11.1
150°-160°	410.3	9.4
160°-170°	273.0	6.2
170°-180°	95.6	2.2
0°-30°	499.3	11.4
0°-40°	802.0	18.3
0°-60°	1302.8	29.7
0°-90°	1579.3	36.0
90°-120°	599.4	13.7
90°-150°	2025.7	46.2
90°-180°	2805.0	64.0
0°-180°	4383.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	571	571	571	571	571	
5°	670	571	504	571	670	68
15°	921	545	404	545	921	260
25°	977	498	328	498	977	431
35°	578	433	291	433	578	367
45°	324	345	260	345	324	255
55°	212	243	227	243	212	192
65°	136	151	181	151	136	135
75°	68	74	112	74	68	72
85°	14	15	35	15	14	18
90°	24	2	24	2	24	12
95°	62	47	62	47	62	64
105°	191	182	191	182	191	201
115°	338	341	338	341	338	334
125°	492	496	492	496	492	439
135°	641	640	641	640	641	495
145°	779	778	779	778	779	487
155°	890	891	890	891	890	410
165°	968	970	968	970	968	273
175°	1005	1009	1005	1009	1005	95
180°	1011	1011	1011	1011	1011	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	608.0	607.9	606.0	605.6	604.3	602.6	602.2	599.1	593.1	590.2	589.5
5°	670.2	675.0	668.8	667.6	666.9	659.1	655.1	650.4	639.5	633.1	628.1
7.5°	744.5	745.0	742.3	740.2	734.1	727.3	717.1	706.2	693.2	679.8	669.6
10°	793.3	795.2	792.1	791.7	779.6	772.0	756.9	744.1	729.4	713.1	698.2
12.5°	844.8	842.2	840.6	830.5	828.2	814.4	796.8	783.7	761.0	742.2	722.4
15°	920.6	915.4	912.1	898.2	891.3	872.1	853.4	839.0	809.4	781.2	759.9
17.5°	965.1	970.3	962.7	956.9	939.2	925.7	906.6	876.3	853.2	818.2	791.3
20°	997.3	997.8	993.5	987.6	973.7	956.6	935.8	902.7	875.0	840.2	803.2
22.5°	1006.0	1006.1	1004.3	998.8	988.2	974.4	953.4	925.7	892.2	854.4	817.4
25°	977.4	976.5	978.6	984.8	980.8	976.5	964.4	943.8	912.6	872.6	832.8
27.5°	871.2	877.8	889.8	904.9	919.5	930.6	933.7	929.5	910.2	877.3	835.6
30°	794.7	802.8	811.8	826.9	856.3	873.1	891.5	905.5	897.7	871.4	832.6
32.5°	710.7	712.7	726.0	743.2	770.1	802.4	831.7	860.1	869.5	855.7	823.3
35°	577.9	581.3	595.7	612.7	645.6	685.2	729.2	768.5	800.9	813.9	797.3
37.5°	471.6	481.1	491.3	509.6	538.6	574.2	619.9	670.8	719.1	751.5	757.0
40°	421.3	427.2	434.5	448.5	473.1	508.1	547.4	605.6	657.0	703.4	718.5
42.5°	381.5	385.0	389.5	402.1	420.8	455.7	491.6	542.8	594.3	649.8	675.2
45°	324.2	327.8	335.4	342.7	356.9	381.0	414.4	456.5	508.4	561.8	608.7
47.5°	282.9	285.1	289.6	297.5	309.6	325.5	352.6	387.8	435.8	487.8	537.7
50°	259.4	261.3	264.8	271.9	281.2	295.4	317.6	350.5	388.1	440.4	489.4
52.5°	240.8	241.6	244.2	249.0	256.4	268.3	286.6	313.8	348.8	395.4	444.2
55°	212.1	213.0	215.4	218.9	225.3	232.9	246.8	267.2	297.7	338.2	380.6
57.5°	188.4	189.1	191.0	192.4	197.7	203.8	214.6	229.1	252.2	286.6	324.4
60°	173.2	172.8	175.1	176.3	179.9	185.1	193.4	207.3	227.4	255.1	289.9
62.5°	158.5	157.8	159.8	161.4	163.4	167.8	174.6	185.5	201.9	226.9	257.0
65°	136.3	135.4	136.6	138.5	140.3	142.7	147.7	157.4	170.4	188.4	211.3
67.5°	114.1	115.1	115.3	116.2	117.3	120.5	123.9	130.8	140.0	154.4	173.8
70°	100.8	101.1	102.0	102.0	102.7	105.6	108.4	112.4	121.4	134.7	150.5
72.5°	87.6	88.6	88.2	88.9	89.5	91.4	93.4	97.3	104.9	114.8	128.2
75°	68.2	68.9	68.9	69.1	69.8	70.5	72.2	75.0	80.5	87.8	97.0
77.5°	49.7	49.8	50.1	51.0	51.0	52.1	53.3	55.6	58.3	63.3	69.0
80°	38.3	38.8	38.6	39.1	39.1	40.0	40.5	43.3	44.5	47.8	52.3
82.5°	28.1	28.6	28.5	29.2	29.6	29.8	30.4	31.6	32.8	35.7	37.5
85°	14.2	14.7	14.2	14.7	15.4	15.6	16.3	16.6	17.5	18.2	19.9
87.5°	8.9	9.4	9.3	9.4	9.7	9.8	9.7	9.3	9.9	9.9	10.4
90°	23.5	23.1	22.8	22.4	22.1	21.4	20.3	19.3	18.2	17.2	15.8
92.5°	34.7	34.5	34.3	34.1	33.9	33.5	32.8	32.2	31.6	31.0	30.0
95°	61.8	61.8	61.8	61.8	61.8	61.5	61.0	60.5	59.9	59.4	58.2
97.5°	96.8	96.8	96.8	96.8	96.8	96.5	95.8	95.2	94.6	94.0	92.5
100°	121.2	121.2	121.2	121.2	121.2	121.0	120.7	120.3	120.0	119.6	118.0
102.5°	148.7	148.6	148.4	148.3	148.1	147.8	147.3	146.9	146.4	145.9	144.5
105°	190.8	190.2	189.7	189.2	188.7	188.1	187.6	187.1	186.6	186.1	185.4
107.5°	231.7	231.8	231.8	231.8	231.9	231.6	231.1	230.7	230.2	229.7	229.6
110°	261.1	260.6	260.1	259.6	259.0	258.9	259.3	259.6	260.0	260.3	260.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	291.1	291.0	290.9	290.8	290.7	290.7	290.8	290.8	290.9	291.0	291.3
115°	337.7	337.9	338.1	338.3	338.4	338.6	338.8	338.9	339.1	339.3	339.6
117.5°	382.1	382.5	382.8	383.2	383.5	384.0	384.6	385.2	385.8	386.4	386.6
120°	415.9	415.6	415.2	414.9	414.5	414.8	415.6	416.5	417.4	418.3	418.8
122.5°	444.1	444.7	445.3	445.9	446.6	447.2	447.8	448.3	448.9	449.5	449.8
125°	492.5	492.9	493.2	493.6	493.9	494.3	494.6	495.0	495.3	495.7	495.8
127.5°	537.4	537.7	538.0	538.2	538.5	538.8	539.2	539.5	539.9	540.2	540.5
130°	566.8	567.5	568.2	568.9	569.6	570.1	570.4	570.8	571.1	571.5	571.5
132.5°	598.1	598.3	598.6	598.9	599.2	599.5	599.8	600.2	600.5	600.9	601.0
135°	641.1	641.6	642.1	642.6	643.1	643.6	643.9	644.3	644.6	645.0	645.0
137.5°	686.3	686.1	686.0	685.9	685.8	686.0	686.5	686.9	687.4	687.8	687.5
140°	713.8	713.9	714.1	714.3	714.5	714.6	714.8	715.0	715.2	715.3	715.3
142.5°	741.3	741.3	741.4	741.4	741.4	741.5	741.5	741.5	741.6	741.6	741.7
145°	778.7	779.2	779.7	780.2	780.7	781.1	781.3	781.4	781.6	781.8	781.6
147.5°	816.5	816.7	816.8	817.0	817.2	817.3	817.5	817.6	817.8	817.9	818.0
150°	839.6	839.8	840.0	840.2	840.3	840.4	840.4	840.4	840.4	840.4	840.4
152.5°	860.9	861.4	861.8	862.3	862.7	862.7	862.3	861.9	861.5	861.1	860.9
155°	890.5	891.1	891.8	892.5	893.2	893.2	892.5	891.8	891.1	890.5	890.6
157.5°	916.9	917.5	918.1	918.7	919.2	919.3	918.8	918.2	917.7	917.2	917.2
160°	931.9	932.8	933.6	934.5	935.4	935.5	935.0	934.5	934.0	933.5	933.6
162.5°	947.5	948.4	949.3	950.1	951.0	951.0	950.0	949.1	948.2	947.2	947.4
165°	967.9	968.5	969.2	969.9	970.6	970.5	969.4	968.4	967.3	966.3	966.6
167.5°	982.4	983.5	984.5	985.6	986.7	986.7	985.7	984.6	983.6	982.5	982.5
170°	990.5	991.7	993.0	994.2	995.4	995.5	994.4	993.4	992.3	991.3	991.1
172.5°	997.4	998.6	999.8	1001.1	1002.3	1002.3	1001.1	999.9	998.7	997.6	997.5
175°	1004.6	1005.8	1007.0	1008.2	1009.5	1009.5	1008.2	1007.0	1005.8	1004.6	1004.8
177.5°	1008.3	1009.5	1010.6	1011.7	1012.8	1012.9	1011.9	1010.9	1009.9	1009.0	1009.0
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	589.7	587.0	585.1	583.6	579.5	577.0	575.1	572.5	569.4	566.2	562.2
5°	623.1	615.1	609.2	600.2	591.7	584.6	577.2	570.6	562.6	553.8	547.4
7.5°	658.3	646.3	631.0	617.7	602.7	589.7	578.1	566.2	553.8	541.7	530.7
10°	680.7	665.3	648.2	628.1	609.2	592.4	576.8	561.6	546.9	532.3	519.7
12.5°	704.7	685.5	660.3	636.8	615.6	593.1	574.3	555.7	538.0	522.6	508.0
15°	737.0	709.3	680.2	648.7	620.8	594.5	568.7	545.3	525.4	505.0	490.8
17.5°	756.8	722.5	689.3	656.4	622.6	589.4	561.6	534.6	509.7	489.5	471.6
20°	769.9	735.8	694.4	661.5	621.3	587.2	555.0	524.9	498.9	477.4	458.9
22.5°	781.2	741.9	700.4	657.1	617.1	580.9	545.7	515.5	488.9	466.2	448.5
25°	787.4	742.2	697.2	654.1	608.7	565.9	533.9	498.4	470.0	446.1	427.2
27.5°	788.1	739.7	688.8	641.0	594.1	554.2	513.9	482.1	452.7	427.4	409.2
30°	786.0	735.6	680.9	629.1	582.0	538.7	503.6	469.1	439.0	413.9	395.0
32.5°	779.3	726.9	670.7	615.8	567.0	524.6	488.5	455.6	426.3	401.6	381.7
35°	760.2	708.3	648.5	591.4	541.5	498.7	466.0	432.6	403.3	379.9	360.7
37.5°	730.2	683.4	622.5	563.5	514.4	471.4	439.0	408.9	382.4	358.6	339.0
40°	704.1	662.9	601.8	544.3	491.3	450.4	420.1	392.4	366.1	343.6	324.9
42.5°	674.0	638.1	581.8	520.9	469.7	428.6	399.1	374.2	349.5	328.7	310.0
45°	620.3	596.6	543.6	487.3	434.0	395.2	367.1	345.3	324.5	304.1	288.5
47.5°	558.6	546.8	502.2	448.7	398.2	359.9	335.5	315.4	297.1	279.9	266.1
50°	517.1	511.4	472.9	421.3	373.0	337.0	312.4	295.1	279.5	264.4	251.3
52.5°	476.2	476.0	441.2	394.0	349.3	314.7	290.2	274.1	260.6	248.3	236.6
55°	413.7	420.3	393.1	351.0	311.0	279.7	257.7	243.3	233.8	223.7	214.9
57.5°	356.3	367.3	344.8	307.7	274.3	245.6	226.4	215.6	205.5	199.3	192.9
60°	318.8	329.2	311.7	280.5	249.0	224.4	206.1	196.4	187.7	183.4	178.9
62.5°	285.5	294.7	281.8	252.8	225.5	201.8	186.4	177.1	171.2	166.6	163.6
65°	237.9	245.7	234.5	213.5	190.0	171.1	158.6	151.2	145.6	143.7	140.3
67.5°	192.3	199.4	193.4	175.5	156.7	142.3	132.5	125.5	122.1	120.5	118.1
70°	165.2	172.3	165.9	150.3	135.8	123.8	114.5	110.5	107.0	106.3	103.0
72.5°	142.3	147.1	140.7	128.5	116.2	106.0	98.8	94.6	92.8	91.5	89.7
75°	106.7	111.0	106.7	97.3	88.5	81.4	75.3	73.6	71.5	70.8	69.6
77.5°	75.5	79.2	76.0	70.1	63.5	58.0	54.7	52.6	52.1	50.9	51.5
80°	57.7	60.1	57.0	53.0	47.8	44.0	41.7	40.5	39.1	38.6	39.5
82.5°	41.5	42.5	40.9	38.2	34.4	31.9	30.3	28.9	28.6	28.7	28.7
85°	21.5	21.3	21.1	18.7	17.5	15.9	14.9	14.7	14.4	14.9	15.4
87.5°	10.1	10.0	9.5	8.4	7.5	6.5	6.0	5.4	6.0	6.5	7.1
90°	14.4	13.0	11.6	10.0	8.1	6.2	4.3	2.3	4.3	6.2	8.1
92.5°	29.0	28.0	27.1	25.5	23.3	21.1	18.9	16.7	18.9	21.1	23.3
95°	57.0	55.8	54.6	53.2	51.6	50.0	48.5	46.9	48.5	50.0	51.6
97.5°	91.1	89.7	88.3	86.9	85.7	84.4	83.2	81.9	83.2	84.4	85.7
100°	116.5	114.9	113.4	112.2	111.5	110.8	110.1	109.5	110.1	110.8	111.5
102.5°	143.0	141.6	140.2	139.3	139.1	138.8	138.5	138.2	138.5	138.8	139.1
105°	184.7	184.0	183.3	182.9	182.7	182.5	182.3	182.2	182.3	182.5	182.7
107.5°	229.5	229.4	229.3	229.1	228.9	228.7	228.5	228.3	228.5	228.7	228.9
110°	260.7	260.9	261.0	260.9	260.6	260.2	259.9	259.6	259.9	260.2	260.6



TEST NUMBER: P332509

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	291.6	291.9	292.2	292.4	292.3	292.2	292.1	292.1	292.1	292.2	292.3
115°	340.0	340.3	340.7	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9
117.5°	386.8	387.1	387.3	387.4	387.2	387.1	387.0	386.8	387.0	387.1	387.2
120°	419.3	419.8	420.3	420.3	419.6	418.9	418.2	417.5	418.2	418.9	419.6
122.5°	450.0	450.3	450.5	450.5	450.2	449.9	449.6	449.4	449.6	449.9	450.2
125°	496.0	496.2	496.3	496.4	496.4	496.4	496.4	496.4	496.4	496.4	496.4
127.5°	540.8	541.0	541.3	541.2	540.7	540.2	539.6	539.1	539.6	540.2	540.7
130°	571.5	571.5	571.5	571.2	570.7	570.2	569.7	569.1	569.7	570.2	570.7
132.5°	601.2	601.3	601.4	601.3	600.9	600.6	600.2	599.8	600.2	600.6	600.9
135°	645.0	645.0	645.0	644.5	643.4	642.4	641.3	640.3	641.3	642.4	643.4
137.5°	687.3	687.0	686.7	686.3	685.8	685.3	684.9	684.4	684.9	685.3	685.8
140°	715.3	715.3	715.3	715.2	714.8	714.5	714.1	713.8	714.1	714.5	714.8
142.5°	741.9	742.0	742.2	742.1	741.7	741.4	741.0	740.7	741.0	741.4	741.7
145°	781.4	781.3	781.1	780.7	780.0	779.3	778.6	777.9	778.6	779.3	780.0
147.5°	818.2	818.3	818.5	818.1	817.3	816.4	815.6	814.8	815.6	816.4	817.3
150°	840.4	840.4	840.4	840.1	839.4	838.7	838.0	837.3	838.0	838.7	839.4
152.5°	860.8	860.6	860.5	860.2	859.8	859.4	859.0	858.6	859.0	859.4	859.8
155°	890.8	891.0	891.1	891.2	891.2	891.2	891.2	891.2	891.2	891.2	891.2
157.5°	917.3	917.3	917.3	917.5	917.8	918.1	918.4	918.8	918.4	918.1	917.8
160°	933.8	934.0	934.1	934.3	934.5	934.7	934.8	935.0	934.8	934.7	934.5
162.5°	947.6	947.7	947.9	948.2	948.7	949.1	949.6	950.0	949.6	949.1	948.7
165°	967.0	967.3	967.7	968.1	968.6	969.2	969.7	970.2	969.7	969.2	968.6
167.5°	982.5	982.4	982.4	982.8	983.5	984.2	984.9	985.7	984.9	984.2	983.5
170°	991.0	990.8	990.6	991.0	991.8	992.7	993.6	994.4	993.6	992.7	991.8
172.5°	997.5	997.5	997.4	997.8	998.5	999.2	1000.0	1000.7	1000.0	999.2	998.5
175°	1004.9	1005.1	1005.3	1005.8	1006.7	1007.5	1008.4	1009.3	1008.4	1007.5	1006.7
177.5°	1009.0	1009.0	1009.0	1009.3	1010.0	1010.7	1011.4	1012.1	1011.4	1010.7	1010.0
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



TEST NUMBER: P332509

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	560.3	558.6	556.2	552.8	549.9	546.9	546.1	545.0	547.3	545.4	544.8
5°	542.0	537.0	530.6	523.3	519.0	512.9	511.7	509.3	506.9	506.7	504.3
7.5°	522.5	515.2	506.8	499.4	492.5	485.7	481.3	480.4	476.9	474.8	472.5
10°	510.0	501.0	491.3	484.2	476.2	469.1	464.1	461.3	458.9	456.3	453.9
12.5°	495.3	485.7	477.7	470.0	460.5	455.1	446.9	442.0	441.5	441.5	435.4
15°	478.1	468.6	456.3	445.4	440.2	429.8	425.3	419.6	416.1	412.5	409.7
17.5°	458.4	446.6	437.0	424.5	414.6	406.3	400.4	397.0	391.6	386.6	383.0
20°	446.1	433.6	423.4	410.1	399.3	389.1	384.1	379.4	375.4	371.1	367.1
22.5°	433.6	420.5	408.1	395.2	385.1	374.3	369.5	363.1	359.3	356.9	352.9
25°	413.9	399.7	385.5	373.2	362.8	353.3	347.0	342.0	337.7	335.8	333.2
27.5°	392.5	378.4	364.7	350.7	338.9	332.0	326.9	323.2	320.7	318.2	317.0
30°	378.9	364.2	349.6	336.5	325.7	318.8	314.1	311.5	309.6	308.4	307.2
32.5°	365.1	350.6	335.2	323.3	313.5	307.4	303.8	301.2	300.3	299.9	299.4
35°	342.9	328.3	314.1	303.4	294.2	291.8	288.7	287.3	286.8	288.5	289.2
37.5°	321.5	307.9	294.8	284.5	278.4	275.0	273.9	274.0	275.7	277.1	278.8
40°	307.7	294.4	282.1	273.1	267.4	265.3	264.8	266.0	267.9	269.6	271.5
42.5°	294.2	281.2	270.0	261.6	257.6	255.6	255.9	257.1	259.8	261.8	264.6
45°	273.4	262.5	251.6	244.7	241.4	241.9	241.9	244.0	246.6	249.7	252.8
47.5°	253.7	242.7	233.8	228.0	226.3	225.9	227.2	230.0	233.7	237.5	241.8
50°	240.5	230.0	222.2	217.0	215.1	215.8	217.7	220.3	224.8	229.6	234.1
52.5°	227.0	217.5	210.3	205.5	204.1	205.4	207.3	211.4	215.4	220.5	225.9
55°	206.1	198.1	192.4	188.9	188.4	189.1	191.2	195.7	201.4	207.8	213.0
57.5°	185.4	178.6	173.4	171.0	171.2	171.9	175.4	180.7	186.8	193.6	200.3
60°	171.3	165.2	160.9	159.0	159.3	160.7	165.0	169.9	177.5	184.1	191.2
62.5°	158.1	152.7	148.6	146.9	146.6	149.7	153.8	158.9	166.5	173.9	181.6
65°	136.8	132.5	129.2	128.3	129.0	131.4	136.6	143.4	149.8	157.6	165.7
67.5°	116.0	112.5	110.2	110.6	111.5	115.0	119.3	125.2	132.5	140.6	148.5
70°	102.7	99.4	97.5	97.7	99.2	103.4	107.2	113.1	120.9	129.2	135.8
72.5°	89.1	86.9	85.2	86.2	87.6	90.5	95.3	101.2	108.1	115.8	122.8
75°	68.4	68.4	67.5	68.2	70.3	73.1	76.7	82.8	89.7	95.9	101.5
77.5°	50.7	50.2	50.8	51.7	52.9	56.3	60.4	64.8	69.9	76.1	80.8
80°	38.8	39.1	40.2	41.7	42.1	44.7	49.0	53.0	57.0	62.2	66.7
82.5°	29.2	29.4	30.0	31.8	32.3	35.1	37.8	41.8	45.5	49.0	52.7
85°	15.9	15.9	17.0	17.8	18.9	20.8	22.5	24.9	28.2	30.5	34.1
87.5°	8.1	8.4	9.4	10.1	10.9	12.1	12.7	15.0	16.0	17.1	19.0
90°	10.0	11.6	13.0	14.4	15.8	17.2	18.2	19.3	20.3	21.4	22.1
92.5°	25.5	27.1	28.0	29.0	30.0	31.0	31.6	32.2	32.8	33.5	33.9
95°	53.2	54.6	55.8	57.0	58.2	59.4	59.9	60.5	61.0	61.5	61.8
97.5°	86.9	88.3	89.7	91.1	92.5	94.0	94.6	95.2	95.8	96.5	96.8
100°	112.2	113.4	114.9	116.5	118.0	119.6	120.0	120.3	120.7	121.0	121.2
102.5°	139.3	140.2	141.6	143.0	144.5	145.9	146.4	146.9	147.3	147.8	148.1
105°	182.9	183.3	184.0	184.7	185.4	186.1	186.6	187.1	187.6	188.1	188.7
107.5°	229.1	229.3	229.4	229.5	229.6	229.7	230.2	230.7	231.1	231.6	231.9
110°	260.9	261.0	260.9	260.7	260.5	260.3	260.0	259.6	259.3	258.9	259.0



TEST NUMBER: P332509

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	292.4	292.2	291.9	291.6	291.3	291.0	290.9	290.8	290.8	290.7	290.7
115°	340.9	340.7	340.3	340.0	339.6	339.3	339.1	338.9	338.8	338.6	338.4
117.5°	387.4	387.3	387.1	386.8	386.6	386.4	385.8	385.2	384.6	384.0	383.5
120°	420.3	420.3	419.8	419.3	418.8	418.3	417.4	416.5	415.6	414.8	414.5
122.5°	450.5	450.5	450.3	450.0	449.8	449.5	448.9	448.3	447.8	447.2	446.6
125°	496.4	496.3	496.2	496.0	495.8	495.7	495.3	495.0	494.6	494.3	493.9
127.5°	541.2	541.3	541.0	540.8	540.5	540.2	539.9	539.5	539.2	538.8	538.5
130°	571.2	571.5	571.5	571.5	571.5	571.5	571.1	570.8	570.4	570.1	569.6
132.5°	601.3	601.4	601.3	601.2	601.0	600.9	600.5	600.2	599.8	599.5	599.2
135°	644.5	645.0	645.0	645.0	645.0	645.0	644.6	644.3	643.9	643.6	643.1
137.5°	686.3	686.7	687.0	687.3	687.5	687.8	687.4	686.9	686.5	686.0	685.8
140°	715.2	715.3	715.3	715.3	715.3	715.3	715.2	715.0	714.8	714.6	714.5
142.5°	742.1	742.2	742.0	741.9	741.7	741.6	741.6	741.5	741.5	741.5	741.4
145°	780.7	781.1	781.3	781.4	781.6	781.8	781.6	781.4	781.3	781.1	780.7
147.5°	818.1	818.5	818.3	818.2	818.0	817.9	817.8	817.6	817.5	817.3	817.2
150°	840.1	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.4	840.3
152.5°	860.2	860.5	860.6	860.8	860.9	861.1	861.5	861.9	862.3	862.7	862.7
155°	891.2	891.1	891.0	890.8	890.6	890.5	891.1	891.8	892.5	893.2	893.2
157.5°	917.5	917.3	917.3	917.3	917.2	917.2	917.7	918.2	918.8	919.3	919.2
160°	934.3	934.1	934.0	933.8	933.6	933.5	934.0	934.5	935.0	935.5	935.4
162.5°	948.2	947.9	947.7	947.6	947.4	947.2	948.2	949.1	950.0	951.0	951.0
165°	968.1	967.7	967.3	967.0	966.6	966.3	967.3	968.4	969.4	970.5	970.6
167.5°	982.8	982.4	982.4	982.5	982.5	982.5	983.6	984.6	985.7	986.7	986.7
170°	991.0	990.6	990.8	991.0	991.1	991.3	992.3	993.4	994.4	995.5	995.4
172.5°	997.8	997.4	997.5	997.5	997.5	997.6	998.7	999.9	1001.1	1002.3	1002.3
175°	1005.8	1005.3	1005.1	1004.9	1004.8	1004.6	1005.8	1007.0	1008.2	1009.5	1009.5
177.5°	1009.3	1009.0	1009.0	1009.0	1009.0	1009.0	1009.9	1010.9	1011.9	1012.9	1012.8
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



TEST NUMBER: P332509

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	544.4	544.1	542.7	542.5	542.7	544.1	544.4	544.8	545.4	547.3	545.0
5°	502.9	501.7	501.0	503.6	501.0	501.7	502.9	504.3	506.7	506.9	509.3
7.5°	471.6	470.7	468.6	467.9	468.6	470.7	471.6	472.5	474.8	476.9	480.4
10°	451.6	450.6	448.7	448.2	448.7	450.6	451.6	453.9	456.3	458.9	461.3
12.5°	432.2	430.4	430.0	430.5	430.0	430.4	432.2	435.4	441.5	441.5	442.0
15°	406.6	405.6	403.0	403.8	403.0	405.6	406.6	409.7	412.5	416.1	419.6
17.5°	381.3	380.2	377.0	379.8	377.0	380.2	381.3	383.0	386.6	391.6	397.0
20°	365.4	363.5	361.9	361.6	361.9	363.5	365.4	367.1	371.1	375.4	379.4
22.5°	350.3	348.6	348.4	346.9	348.4	348.6	350.3	352.9	356.9	359.3	363.1
25°	331.3	329.7	329.2	328.0	329.2	329.7	331.3	333.2	335.8	337.7	342.0
27.5°	316.8	316.0	315.1	315.5	315.1	316.0	316.8	317.0	318.2	320.7	323.2
30°	307.9	307.7	307.2	307.2	307.2	307.7	307.9	307.2	308.4	309.6	311.5
32.5°	300.5	300.5	300.8	300.8	300.8	300.5	300.5	299.4	299.9	300.3	301.2
35°	290.2	290.9	291.3	290.6	291.3	290.9	290.2	289.2	288.5	286.8	287.3
37.5°	280.8	281.5	282.2	283.0	282.2	281.5	280.8	278.8	277.1	275.7	274.0
40°	273.6	275.2	275.7	276.9	275.7	275.2	273.6	271.5	269.6	267.9	266.0
42.5°	266.8	268.6	269.8	270.1	269.8	268.6	266.8	264.6	261.8	259.8	257.1
45°	256.3	258.2	259.9	259.9	259.9	258.2	256.3	252.8	249.7	246.6	244.0
47.5°	245.5	248.2	249.9	250.3	249.9	248.2	245.5	241.8	237.5	233.7	230.0
50°	238.1	241.4	243.1	244.2	243.1	241.4	238.1	234.1	229.6	224.8	220.3
52.5°	230.9	234.2	236.4	237.0	236.4	234.2	230.9	225.9	220.5	215.4	211.4
55°	218.4	223.2	225.8	226.7	225.8	223.2	218.4	213.0	207.8	201.4	195.7
57.5°	206.7	211.1	214.1	214.8	214.1	211.1	206.7	200.3	193.6	186.8	180.7
60°	197.6	202.4	206.1	206.8	206.1	202.4	197.6	191.2	184.1	177.5	169.9
62.5°	188.3	193.3	196.7	198.5	196.7	193.3	188.3	181.6	173.9	166.5	158.9
65°	172.3	177.3	180.6	181.3	180.6	177.3	172.3	165.7	157.6	149.8	143.4
67.5°	154.8	159.8	161.9	163.3	161.9	159.8	154.8	148.5	140.6	132.5	125.2
70°	142.5	146.5	148.9	150.0	148.9	146.5	142.5	135.8	129.2	120.9	113.1
72.5°	128.5	132.7	135.4	135.7	135.4	132.7	128.5	122.8	115.8	108.1	101.2
75°	107.0	110.8	112.2	112.2	112.2	110.8	107.0	101.5	95.9	89.7	82.8
77.5°	84.7	86.6	88.4	88.8	88.4	86.6	84.7	80.8	76.1	69.9	64.8
80°	70.3	71.5	72.9	72.9	72.9	71.5	70.3	66.7	62.2	57.0	53.0
82.5°	55.5	56.5	57.9	57.7	57.9	56.5	55.5	52.7	49.0	45.5	41.8
85°	33.6	35.7	35.5	35.0	35.5	35.7	33.6	34.1	30.5	28.2	24.9
87.5°	19.6	19.9	20.5	21.0	20.5	19.9	19.6	19.0	17.1	16.0	15.0
90°	22.4	22.8	23.1	23.5	23.1	22.8	22.4	22.1	21.4	20.3	19.3
92.5°	34.1	34.3	34.5	34.7	34.5	34.3	34.1	33.9	33.5	32.8	32.2
95°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.5	61.0	60.5
97.5°	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.5	95.8	95.2
100°	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.2	121.0	120.7	120.3
102.5°	148.3	148.4	148.6	148.7	148.6	148.4	148.3	148.1	147.8	147.3	146.9
105°	189.2	189.7	190.2	190.8	190.2	189.7	189.2	188.7	188.1	187.6	187.1
107.5°	231.8	231.8	231.8	231.7	231.8	231.8	231.8	231.9	231.6	231.1	230.7
110°	259.6	260.1	260.6	261.1	260.6	260.1	259.6	259.0	258.9	259.3	259.6



TEST NUMBER: P332509

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	290.8	290.9	291.0	291.1	291.0	290.9	290.8	290.7	290.7	290.8	290.8
115°	338.3	338.1	337.9	337.7	337.9	338.1	338.3	338.4	338.6	338.8	338.9
117.5°	383.2	382.8	382.5	382.1	382.5	382.8	383.2	383.5	384.0	384.6	385.2
120°	414.9	415.2	415.6	415.9	415.6	415.2	414.9	414.5	414.8	415.6	416.5
122.5°	445.9	445.3	444.7	444.1	444.7	445.3	445.9	446.6	447.2	447.8	448.3
125°	493.6	493.2	492.9	492.5	492.9	493.2	493.6	493.9	494.3	494.6	495.0
127.5°	538.2	538.0	537.7	537.4	537.7	538.0	538.2	538.5	538.8	539.2	539.5
130°	568.9	568.2	567.5	566.8	567.5	568.2	568.9	569.6	570.1	570.4	570.8
132.5°	598.9	598.6	598.3	598.1	598.3	598.6	598.9	599.2	599.5	599.8	600.2
135°	642.6	642.1	641.6	641.1	641.6	642.1	642.6	643.1	643.6	643.9	644.3
137.5°	685.9	686.0	686.1	686.3	686.1	686.0	685.9	685.8	686.0	686.5	686.9
140°	714.3	714.1	713.9	713.8	713.9	714.1	714.3	714.5	714.6	714.8	715.0
142.5°	741.4	741.4	741.3	741.3	741.3	741.4	741.4	741.4	741.5	741.5	741.5
145°	780.2	779.7	779.2	778.7	779.2	779.7	780.2	780.7	781.1	781.3	781.4
147.5°	817.0	816.8	816.7	816.5	816.7	816.8	817.0	817.2	817.3	817.5	817.6
150°	840.2	840.0	839.8	839.6	839.8	840.0	840.2	840.3	840.4	840.4	840.4
152.5°	862.3	861.8	861.4	860.9	861.4	861.8	862.3	862.7	862.7	862.3	861.9
155°	892.5	891.8	891.1	890.5	891.1	891.8	892.5	893.2	893.2	892.5	891.8
157.5°	918.7	918.1	917.5	916.9	917.5	918.1	918.7	919.2	919.3	918.8	918.2
160°	934.5	933.6	932.8	931.9	932.8	933.6	934.5	935.4	935.5	935.0	934.5
162.5°	950.1	949.3	948.4	947.5	948.4	949.3	950.1	951.0	951.0	950.0	949.1
165°	969.9	969.2	968.5	967.9	968.5	969.2	969.9	970.6	970.5	969.4	968.4
167.5°	985.6	984.5	983.5	982.4	983.5	984.5	985.6	986.7	986.7	985.7	984.6
170°	994.2	993.0	991.7	990.5	991.7	993.0	994.2	995.4	995.5	994.4	993.4
172.5°	1001.1	999.8	998.6	997.4	998.6	999.8	1001.1	1002.3	1002.3	1001.1	999.9
175°	1008.2	1007.0	1005.8	1004.6	1005.8	1007.0	1008.2	1009.5	1009.5	1008.2	1007.0
177.5°	1011.7	1010.6	1009.5	1008.3	1009.5	1010.6	1011.7	1012.8	1012.9	1011.9	1010.9
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



TEST NUMBER: P332509

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	546.1	546.9	549.9	552.8	556.2	558.6	560.3	562.2	566.2	569.4	572.5
5°	511.7	512.9	519.0	523.3	530.6	537.0	542.0	547.4	553.8	562.6	570.6
7.5°	481.3	485.7	492.5	499.4	506.8	515.2	522.5	530.7	541.7	553.8	566.2
10°	464.1	469.1	476.2	484.2	491.3	501.0	510.0	519.7	532.3	546.9	561.6
12.5°	446.9	455.1	460.5	470.0	477.7	485.7	495.3	508.0	522.6	538.0	555.7
15°	425.3	429.8	440.2	445.4	456.3	468.6	478.1	490.8	505.0	525.4	545.3
17.5°	400.4	406.3	414.6	424.5	437.0	446.6	458.4	471.6	489.5	509.7	534.6
20°	384.1	389.1	399.3	410.1	423.4	433.6	446.1	458.9	477.4	498.9	524.9
22.5°	369.5	374.3	385.1	395.2	408.1	420.5	433.6	448.5	466.2	488.9	515.5
25°	347.0	353.3	362.8	373.2	385.5	399.7	413.9	427.2	446.1	470.0	498.4
27.5°	326.9	332.0	338.9	350.7	364.7	378.4	392.5	409.2	427.4	452.7	482.1
30°	314.1	318.8	325.7	336.5	349.6	364.2	378.9	395.0	413.9	439.0	469.1
32.5°	303.8	307.4	313.5	323.3	335.2	350.6	365.1	381.7	401.6	426.3	455.6
35°	288.7	291.8	294.2	303.4	314.1	328.3	342.9	360.7	379.9	403.3	432.6
37.5°	273.9	275.0	278.4	284.5	294.8	307.9	321.5	339.0	358.6	382.4	408.9
40°	264.8	265.3	267.4	273.1	282.1	294.4	307.7	324.9	343.6	366.1	392.4
42.5°	255.9	255.6	257.6	261.6	270.0	281.2	294.2	310.0	328.7	349.5	374.2
45°	241.9	241.9	241.4	244.7	251.6	262.5	273.4	288.5	304.1	324.5	345.3
47.5°	227.2	225.9	226.3	228.0	233.8	242.7	253.7	266.1	279.9	297.1	315.4
50°	217.7	215.8	215.1	217.0	222.2	230.0	240.5	251.3	264.4	279.5	295.1
52.5°	207.3	205.4	204.1	205.5	210.3	217.5	227.0	236.6	248.3	260.6	274.1
55°	191.2	189.1	188.4	188.9	192.4	198.1	206.1	214.9	223.7	233.8	243.3
57.5°	175.4	171.9	171.2	171.0	173.4	178.6	185.4	192.9	199.3	205.5	215.6
60°	165.0	160.7	159.3	159.0	160.9	165.2	171.3	178.9	183.4	187.7	196.4
62.5°	153.8	149.7	146.6	146.9	148.6	152.7	158.1	163.6	166.6	171.2	177.1
65°	136.6	131.4	129.0	128.3	129.2	132.5	136.8	140.3	143.7	145.6	151.2
67.5°	119.3	115.0	111.5	110.6	110.2	112.5	116.0	118.1	120.5	122.1	125.5
70°	107.2	103.4	99.2	97.7	97.5	99.4	102.7	103.0	106.3	107.0	110.5
72.5°	95.3	90.5	87.6	86.2	85.2	86.9	89.1	89.7	91.5	92.8	94.6
75°	76.7	73.1	70.3	68.2	67.5	68.4	68.4	69.6	70.8	71.5	73.6
77.5°	60.4	56.3	52.9	51.7	50.8	50.2	50.7	51.5	50.9	52.1	52.6
80°	49.0	44.7	42.1	41.7	40.2	39.1	38.8	39.5	38.6	39.1	40.5
82.5°	37.8	35.1	32.3	31.8	30.0	29.4	29.2	28.7	28.7	28.6	28.9
85°	22.5	20.8	18.9	17.8	17.0	15.9	15.9	15.4	14.9	14.4	14.7
87.5°	12.7	12.1	10.9	10.1	9.4	8.4	8.1	7.1	6.5	6.0	5.4
90°	18.2	17.2	15.8	14.4	13.0	11.6	10.0	8.1	6.2	4.3	2.3
92.5°	31.6	31.0	30.0	29.0	28.0	27.1	25.5	23.3	21.1	18.9	16.7
95°	59.9	59.4	58.2	57.0	55.8	54.6	53.2	51.6	50.0	48.5	46.9
97.5°	94.6	94.0	92.5	91.1	89.7	88.3	86.9	85.7	84.4	83.2	81.9
100°	120.0	119.6	118.0	116.5	114.9	113.4	112.2	111.5	110.8	110.1	109.5
102.5°	146.4	145.9	144.5	143.0	141.6	140.2	139.3	139.1	138.8	138.5	138.2
105°	186.6	186.1	185.4	184.7	184.0	183.3	182.9	182.7	182.5	182.3	182.2
107.5°	230.2	229.7	229.6	229.5	229.4	229.3	229.1	228.9	228.7	228.5	228.3
110°	260.0	260.3	260.5	260.7	260.9	261.0	260.9	260.6	260.2	259.9	259.6



TEST NUMBER: P332509

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	290.9	291.0	291.3	291.6	291.9	292.2	292.4	292.3	292.2	292.1	292.1
115°	339.1	339.3	339.6	340.0	340.3	340.7	340.9	340.9	340.9	340.9	340.9
117.5°	385.8	386.4	386.6	386.8	387.1	387.3	387.4	387.2	387.1	387.0	386.8
120°	417.4	418.3	418.8	419.3	419.8	420.3	420.3	419.6	418.9	418.2	417.5
122.5°	448.9	449.5	449.8	450.0	450.3	450.5	450.5	450.2	449.9	449.6	449.4
125°	495.3	495.7	495.8	496.0	496.2	496.3	496.4	496.4	496.4	496.4	496.4
127.5°	539.9	540.2	540.5	540.8	541.0	541.3	541.2	540.7	540.2	539.6	539.1
130°	571.1	571.5	571.5	571.5	571.5	571.5	571.2	570.7	570.2	569.7	569.1
132.5°	600.5	600.9	601.0	601.2	601.3	601.4	601.3	600.9	600.6	600.2	599.8
135°	644.6	645.0	645.0	645.0	645.0	645.0	644.5	643.4	642.4	641.3	640.3
137.5°	687.4	687.8	687.5	687.3	687.0	686.7	686.3	685.8	685.3	684.9	684.4
140°	715.2	715.3	715.3	715.3	715.3	715.3	715.2	714.8	714.5	714.1	713.8
142.5°	741.6	741.6	741.7	741.9	742.0	742.2	742.1	741.7	741.4	741.0	740.7
145°	781.6	781.8	781.6	781.4	781.3	781.1	780.7	780.0	779.3	778.6	777.9
147.5°	817.8	817.9	818.0	818.2	818.3	818.5	818.1	817.3	816.4	815.6	814.8
150°	840.4	840.4	840.4	840.4	840.4	840.4	840.1	839.4	838.7	838.0	837.3
152.5°	861.5	861.1	860.9	860.8	860.6	860.5	860.2	859.8	859.4	859.0	858.6
155°	891.1	890.5	890.6	890.8	891.0	891.1	891.2	891.2	891.2	891.2	891.2
157.5°	917.7	917.2	917.2	917.3	917.3	917.3	917.5	917.8	918.1	918.4	918.8
160°	934.0	933.5	933.6	933.8	934.0	934.1	934.3	934.5	934.7	934.8	935.0
162.5°	948.2	947.2	947.4	947.6	947.7	947.9	948.2	948.7	949.1	949.6	950.0
165°	967.3	966.3	966.6	967.0	967.3	967.7	968.1	968.6	969.2	969.7	970.2
167.5°	983.6	982.5	982.5	982.5	982.4	982.4	982.8	983.5	984.2	984.9	985.7
170°	992.3	991.3	991.1	991.0	990.8	990.6	991.0	991.8	992.7	993.6	994.4
172.5°	998.7	997.6	997.5	997.5	997.5	997.4	997.8	998.5	999.2	1000.0	1000.7
175°	1005.8	1004.6	1004.8	1004.9	1005.1	1005.3	1005.8	1006.7	1007.5	1008.4	1009.3
177.5°	1009.9	1009.0	1009.0	1009.0	1009.0	1009.0	1009.3	1010.0	1010.7	1011.4	1012.1
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



TEST NUMBER: P332509

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	575.1	577.0	579.5	583.6	585.1	587.0	589.7	589.5	590.2	593.1	599.1
5°	577.2	584.6	591.7	600.2	609.2	615.1	623.1	628.1	633.1	639.5	650.4
7.5°	578.1	589.7	602.7	617.7	631.0	646.3	658.3	669.6	679.8	693.2	706.2
10°	576.8	592.4	609.2	628.1	648.2	665.3	680.7	698.2	713.1	729.4	744.1
12.5°	574.3	593.1	615.6	636.8	660.3	685.5	704.7	722.4	742.2	761.0	783.7
15°	568.7	594.5	620.8	648.7	680.2	709.3	737.0	759.9	781.2	809.4	839.0
17.5°	561.6	589.4	622.6	656.4	689.3	722.5	756.8	791.3	818.2	853.2	876.3
20°	555.0	587.2	621.3	661.5	694.4	735.8	769.9	803.2	840.2	875.0	902.7
22.5°	545.7	580.9	617.1	657.1	700.4	741.9	781.2	817.4	854.4	892.2	925.7
25°	533.9	565.9	608.7	654.1	697.2	742.2	787.4	832.8	872.6	912.6	943.8
27.5°	513.9	554.2	594.1	641.0	688.8	739.7	788.1	835.6	877.3	910.2	929.5
30°	503.6	538.7	582.0	629.1	680.9	735.6	786.0	832.6	871.4	897.7	905.5
32.5°	488.5	524.6	567.0	615.8	670.7	726.9	779.3	823.3	855.7	869.5	860.1
35°	466.0	498.7	541.5	591.4	648.5	708.3	760.2	797.3	813.9	800.9	768.5
37.5°	439.0	471.4	514.4	563.5	622.5	683.4	730.2	757.0	751.5	719.1	670.8
40°	420.1	450.4	491.3	544.3	601.8	662.9	704.1	718.5	703.4	657.0	605.6
42.5°	399.1	428.6	469.7	520.9	581.8	638.1	674.0	675.2	649.8	594.3	542.8
45°	367.1	395.2	434.0	487.3	543.6	596.6	620.3	608.7	561.8	508.4	456.5
47.5°	335.5	359.9	398.2	448.7	502.2	546.8	558.6	537.7	487.8	435.8	387.8
50°	312.4	337.0	373.0	421.3	472.9	511.4	517.1	489.4	440.4	388.1	350.5
52.5°	290.2	314.7	349.3	394.0	441.2	476.0	476.2	444.2	395.4	348.8	313.8
55°	257.7	279.7	311.0	351.0	393.1	420.3	413.7	380.6	338.2	297.7	267.2
57.5°	226.4	245.6	274.3	307.7	344.8	367.3	356.3	324.4	286.6	252.2	229.1
60°	206.1	224.4	249.0	280.5	311.7	329.2	318.8	289.9	255.1	227.4	207.3
62.5°	186.4	201.8	225.5	252.8	281.8	294.7	285.5	257.0	226.9	201.9	185.5
65°	158.6	171.1	190.0	213.5	234.5	245.7	237.9	211.3	188.4	170.4	157.4
67.5°	132.5	142.3	156.7	175.5	193.4	199.4	192.3	173.8	154.4	140.0	130.8
70°	114.5	123.8	135.8	150.3	165.9	172.3	165.2	150.5	134.7	121.4	112.4
72.5°	98.8	106.0	116.2	128.5	140.7	147.1	142.3	128.2	114.8	104.9	97.3
75°	75.3	81.4	88.5	97.3	106.7	111.0	106.7	97.0	87.8	80.5	75.0
77.5°	54.7	58.0	63.5	70.1	76.0	79.2	75.5	69.0	63.3	58.3	55.6
80°	41.7	44.0	47.8	53.0	57.0	60.1	57.7	52.3	47.8	44.5	43.3
82.5°	30.3	31.9	34.4	38.2	40.9	42.5	41.5	37.5	35.7	32.8	31.6
85°	14.9	15.9	17.5	18.7	21.1	21.3	21.5	19.9	18.2	17.5	16.6
87.5°	6.0	6.5	7.5	8.4	9.5	10.0	10.1	10.4	9.9	9.9	9.3
90°	4.3	6.2	8.1	10.0	11.6	13.0	14.4	15.8	17.2	18.2	19.3
92.5°	18.9	21.1	23.3	25.5	27.1	28.0	29.0	30.0	31.0	31.6	32.2
95°	48.5	50.0	51.6	53.2	54.6	55.8	57.0	58.2	59.4	59.9	60.5
97.5°	83.2	84.4	85.7	86.9	88.3	89.7	91.1	92.5	94.0	94.6	95.2
100°	110.1	110.8	111.5	112.2	113.4	114.9	116.5	118.0	119.6	120.0	120.3
102.5°	138.5	138.8	139.1	139.3	140.2	141.6	143.0	144.5	145.9	146.4	146.9
105°	182.3	182.5	182.7	182.9	183.3	184.0	184.7	185.4	186.1	186.6	187.1
107.5°	228.5	228.7	228.9	229.1	229.3	229.4	229.5	229.6	229.7	230.2	230.7
110°	259.9	260.2	260.6	260.9	261.0	260.9	260.7	260.5	260.3	260.0	259.6



TEST NUMBER: P332509

CATALOG NUMBER: SA4XXDIP-C350D810U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	292.1	292.2	292.3	292.4	292.2	291.9	291.6	291.3	291.0	290.9	290.8
115°	340.9	340.9	340.9	340.9	340.7	340.3	340.0	339.6	339.3	339.1	338.9
117.5°	387.0	387.1	387.2	387.4	387.3	387.1	386.8	386.6	386.4	385.8	385.2
120°	418.2	418.9	419.6	420.3	420.3	419.8	419.3	418.8	418.3	417.4	416.5
122.5°	449.6	449.9	450.2	450.5	450.5	450.3	450.0	449.8	449.5	448.9	448.3
125°	496.4	496.4	496.4	496.4	496.3	496.2	496.0	495.8	495.7	495.3	495.0
127.5°	539.6	540.2	540.7	541.2	541.3	541.0	540.8	540.5	540.2	539.9	539.5
130°	569.7	570.2	570.7	571.2	571.5	571.5	571.5	571.5	571.5	571.1	570.8
132.5°	600.2	600.6	600.9	601.3	601.4	601.3	601.2	601.0	600.9	600.5	600.2
135°	641.3	642.4	643.4	644.5	645.0	645.0	645.0	645.0	645.0	644.6	644.3
137.5°	684.9	685.3	685.8	686.3	686.7	687.0	687.3	687.5	687.8	687.4	686.9
140°	714.1	714.5	714.8	715.2	715.3	715.3	715.3	715.3	715.3	715.2	715.0
142.5°	741.0	741.4	741.7	742.1	742.2	742.0	741.9	741.7	741.6	741.6	741.5
145°	778.6	779.3	780.0	780.7	781.1	781.3	781.4	781.6	781.8	781.6	781.4
147.5°	815.6	816.4	817.3	818.1	818.5	818.3	818.2	818.0	817.9	817.8	817.6
150°	838.0	838.7	839.4	840.1	840.4	840.4	840.4	840.4	840.4	840.4	840.4
152.5°	859.0	859.4	859.8	860.2	860.5	860.6	860.8	860.9	861.1	861.5	861.9
155°	891.2	891.2	891.2	891.2	891.1	891.0	890.8	890.6	890.5	891.1	891.8
157.5°	918.4	918.1	917.8	917.5	917.3	917.3	917.3	917.2	917.2	917.7	918.2
160°	934.8	934.7	934.5	934.3	934.1	934.0	933.8	933.6	933.5	934.0	934.5
162.5°	949.6	949.1	948.7	948.2	947.9	947.7	947.6	947.4	947.2	948.2	949.1
165°	969.7	969.2	968.6	968.1	967.7	967.3	967.0	966.6	966.3	967.3	968.4
167.5°	984.9	984.2	983.5	982.8	982.4	982.4	982.5	982.5	982.5	983.6	984.6
170°	993.6	992.7	991.8	991.0	990.6	990.8	991.0	991.1	991.3	992.3	993.4
172.5°	1000.0	999.2	998.5	997.8	997.4	997.5	997.5	997.5	997.6	998.7	999.9
175°	1008.4	1007.5	1006.7	1005.8	1005.3	1005.1	1004.9	1004.8	1004.6	1005.8	1007.0
177.5°	1011.4	1010.7	1010.0	1009.3	1009.0	1009.0	1009.0	1009.0	1009.0	1009.9	1010.9
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	571.3	571.3	571.3	571.3	571.3	571.3	571.3
2.5°	602.2	602.6	604.3	605.6	606.0	607.9	608.0
5°	655.1	659.1	666.9	667.6	668.8	675.0	670.2
7.5°	717.1	727.3	734.1	740.2	742.3	745.0	744.5
10°	756.9	772.0	779.6	791.7	792.1	795.2	793.3
12.5°	796.8	814.4	828.2	830.5	840.6	842.2	844.8
15°	853.4	872.1	891.3	898.2	912.1	915.4	920.6
17.5°	906.6	925.7	939.2	956.9	962.7	970.3	965.1
20°	935.8	956.6	973.7	987.6	993.5	997.8	997.3
22.5°	953.4	974.4	988.2	998.8	1004.3	1006.1	1006.0
25°	964.4	976.5	980.8	984.8	978.6	976.5	977.4
27.5°	933.7	930.6	919.5	904.9	889.8	877.8	871.2
30°	891.5	873.1	856.3	826.9	811.8	802.8	794.7
32.5°	831.7	802.4	770.1	743.2	726.0	712.7	710.7
35°	729.2	685.2	645.6	612.7	595.7	581.3	577.9
37.5°	619.9	574.2	538.6	509.6	491.3	481.1	471.6
40°	547.4	508.1	473.1	448.5	434.5	427.2	421.3
42.5°	491.6	455.7	420.8	402.1	389.5	385.0	381.5
45°	414.4	381.0	356.9	342.7	335.4	327.8	324.2
47.5°	352.6	325.5	309.6	297.5	289.6	285.1	282.9
50°	317.6	295.4	281.2	271.9	264.8	261.3	259.4
52.5°	286.6	268.3	256.4	249.0	244.2	241.6	240.8
55°	246.8	232.9	225.3	218.9	215.4	213.0	212.1
57.5°	214.6	203.8	197.7	192.4	191.0	189.1	188.4
60°	193.4	185.1	179.9	176.3	175.1	172.8	173.2
62.5°	174.6	167.8	163.4	161.4	159.8	157.8	158.5
65°	147.7	142.7	140.3	138.5	136.6	135.4	136.3
67.5°	123.9	120.5	117.3	116.2	115.3	115.1	114.1
70°	108.4	105.6	102.7	102.0	102.0	101.1	100.8
72.5°	93.4	91.4	89.5	88.9	88.2	88.6	87.6
75°	72.2	70.5	69.8	69.1	68.9	68.9	68.2
77.5°	53.3	52.1	51.0	51.0	50.1	49.8	49.7
80°	40.5	40.0	39.1	39.1	38.6	38.8	38.3
82.5°	30.4	29.8	29.6	29.2	28.5	28.6	28.1
85°	16.3	15.6	15.4	14.7	14.2	14.7	14.2
87.5°	9.7	9.8	9.7	9.4	9.3	9.4	8.9
90°	20.3	21.4	22.1	22.4	22.8	23.1	23.5
92.5°	32.8	33.5	33.9	34.1	34.3	34.5	34.7
95°	61.0	61.5	61.8	61.8	61.8	61.8	61.8
97.5°	95.8	96.5	96.8	96.8	96.8	96.8	96.8
100°	120.7	121.0	121.2	121.2	121.2	121.2	121.2
102.5°	147.3	147.8	148.1	148.3	148.4	148.6	148.7
105°	187.6	188.1	188.7	189.2	189.7	190.2	190.8
107.5°	231.1	231.6	231.9	231.8	231.8	231.8	231.7
110°	259.3	258.9	259.0	259.6	260.1	260.6	261.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	290.8	290.7	290.7	290.8	290.9	291.0	291.1
115°	338.8	338.6	338.4	338.3	338.1	337.9	337.7
117.5°	384.6	384.0	383.5	383.2	382.8	382.5	382.1
120°	415.6	414.8	414.5	414.9	415.2	415.6	415.9
122.5°	447.8	447.2	446.6	445.9	445.3	444.7	444.1
125°	494.6	494.3	493.9	493.6	493.2	492.9	492.5
127.5°	539.2	538.8	538.5	538.2	538.0	537.7	537.4
130°	570.4	570.1	569.6	568.9	568.2	567.5	566.8
132.5°	599.8	599.5	599.2	598.9	598.6	598.3	598.1
135°	643.9	643.6	643.1	642.6	642.1	641.6	641.1
137.5°	686.5	686.0	685.8	685.9	686.0	686.1	686.3
140°	714.8	714.6	714.5	714.3	714.1	713.9	713.8
142.5°	741.5	741.5	741.4	741.4	741.4	741.3	741.3
145°	781.3	781.1	780.7	780.2	779.7	779.2	778.7
147.5°	817.5	817.3	817.2	817.0	816.8	816.7	816.5
150°	840.4	840.4	840.3	840.2	840.0	839.8	839.6
152.5°	862.3	862.7	862.7	862.3	861.8	861.4	860.9
155°	892.5	893.2	893.2	892.5	891.8	891.1	890.5
157.5°	918.8	919.3	919.2	918.7	918.1	917.5	916.9
160°	935.0	935.5	935.4	934.5	933.6	932.8	931.9
162.5°	950.0	951.0	951.0	950.1	949.3	948.4	947.5
165°	969.4	970.5	970.6	969.9	969.2	968.5	967.9
167.5°	985.7	986.7	986.7	985.6	984.5	983.5	982.4
170°	994.4	995.5	995.4	994.2	993.0	991.7	990.5
172.5°	1001.1	1002.3	1002.3	1001.1	999.8	998.6	997.4
175°	1008.2	1009.5	1009.5	1008.2	1007.0	1005.8	1004.6
177.5°	1011.9	1012.9	1012.8	1011.7	1010.6	1009.5	1008.3
180°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8

(END OF REPORT)