

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: P332501

Luminaire Tested: **SA4XXDIP-C350D590U835-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P332501  
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: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4  
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 590 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

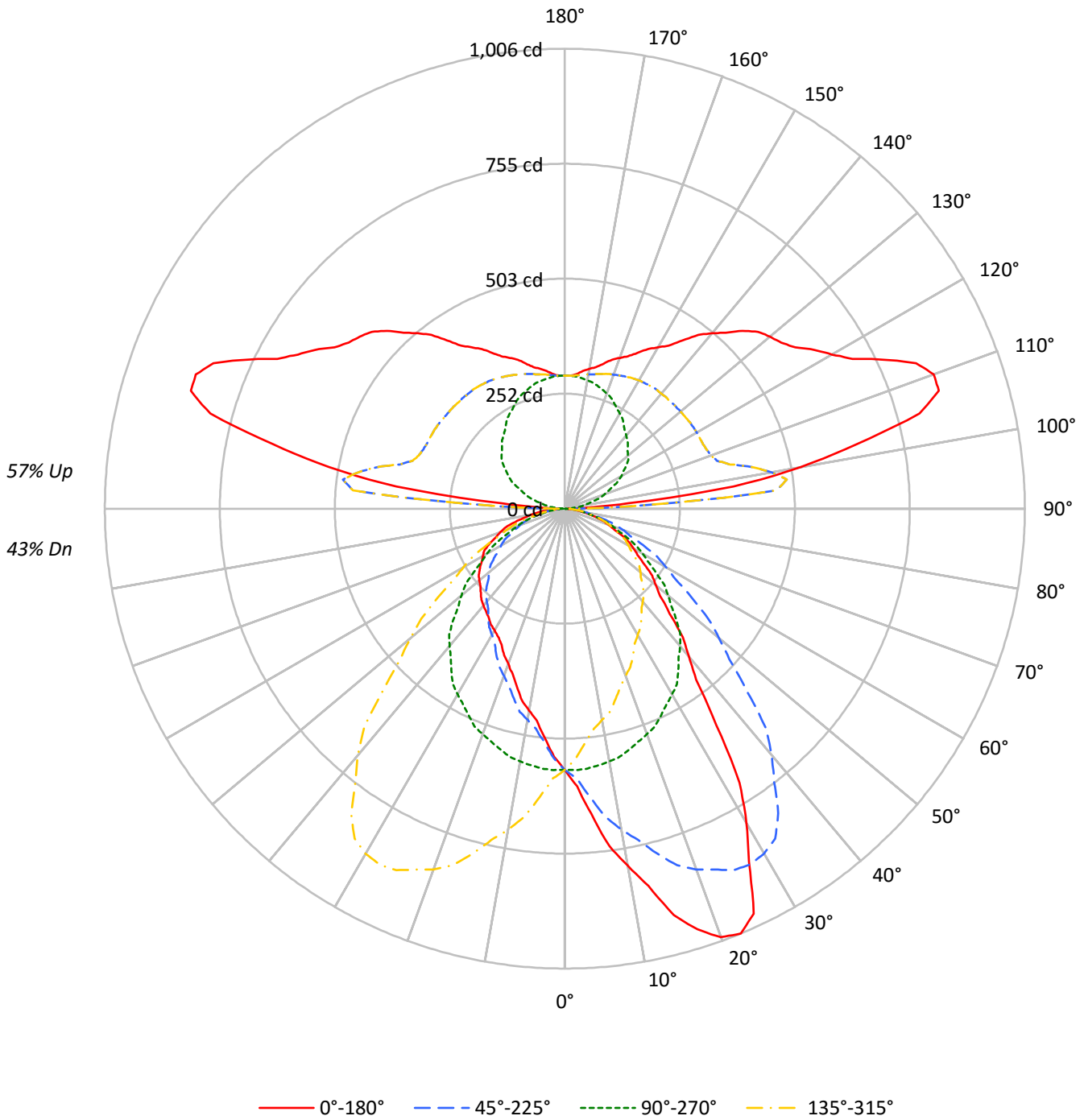
Lumens per Lamp: N/A  
Luminaire Lumens: 3689.6 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41  
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')  
CIE Type: General Diffuse

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



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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	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	81	75	70	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	40	43	38	34	35	32	29	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	21	19	16	14
9	50	38	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	23	42	32	26	21	27	22	19	23	19	16	18	16	13	11

**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	1.5
10°-20°	171.6	4.6
20°-30°	272.0	7.4
30°-40°	302.8	8.2
40°-50°	275.6	7.5
50°-60°	225.2	6.1
60°-70°	160.8	4.4
70°-80°	88.5	2.4
80°-90°	25.8	0.7
90°-100°	209.7	5.7
100°-110°	436.5	11.8
110°-120°	391.0	10.6
120°-130°	328.9	8.9
130°-140°	274.2	7.4
140°-150°	209.5	5.7
150°-160°	147.2	4.0
160°-170°	86.6	2.3
170°-180°	28.2	0.8
0°-30°	499.3	13.5
0°-40°	802.0	21.7
0°-60°	1302.8	35.3
0°-90°	1577.9	42.8
90°-120°	1037.2	28.1
90°-150°	1849.7	50.1
90°-180°	2112.0	57.2
0°-180°	3689.6	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°	12	1	12	1	12	10
95°	139	19	139	19	139	216
105°	803	67	803	67	803	794
115°	771	118	771	118	771	765
125°	615	164	615	164	615	559
135°	550	194	550	194	550	424
145°	449	224	449	224	449	285
155°	376	255	376	255	376	175
165°	328	278	328	278	328	94
175°	296	290	296	290	296	29
180°	290	290	290	290	290	



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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°	6.6	7.1	7.2	7.3	7.6	7.8	7.8	7.5	8.2	8.5	9.0
90°	12.0	12.0	12.5	12.0	11.4	11.4	10.8	10.3	9.7	10.3	9.1
92.5°	43.9	43.9	45.9	48.9	55.7	67.1	84.3	112.0	150.7	180.9	158.4
95°	139.2	146.6	156.9	174.6	202.5	257.8	334.3	422.7	478.0	464.9	350.8
97.5°	372.0	383.9	401.0	435.4	476.3	535.9	591.7	624.5	600.6	489.7	328.4
100°	523.1	527.7	544.8	579.6	629.2	671.4	699.4	688.0	604.7	458.6	297.8
102.5°	654.5	658.2	676.2	701.4	731.9	749.5	741.4	684.8	570.4	419.9	277.2
105°	802.6	806.0	814.0	818.6	817.5	794.1	737.6	638.9	508.3	374.2	259.6
107.5°	857.6	856.1	850.4	837.4	809.2	758.4	678.8	573.8	458.1	348.7	256.4
110°	858.5	853.4	843.1	819.2	778.7	715.9	633.2	534.5	433.0	340.0	257.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	831.6	823.3	808.9	779.9	733.9	671.2	593.0	505.8	418.8	335.9	260.0
115°	770.7	766.1	747.9	713.6	668.6	613.8	547.1	476.9	405.6	333.7	265.3
117.5°	709.0	705.4	686.9	658.2	619.7	573.3	520.8	462.7	399.7	333.1	270.8
120°	674.3	668.0	653.2	628.1	595.5	555.0	509.4	456.4	396.5	333.1	275.0
122.5°	646.9	640.6	628.1	606.6	579.1	543.6	502.1	450.9	392.8	332.7	279.1
125°	614.9	611.5	600.7	584.1	561.3	529.9	490.6	441.5	386.8	332.0	285.2
127.5°	596.2	592.8	583.7	569.0	546.0	516.3	477.0	430.1	378.7	330.7	290.1
130°	585.3	581.9	572.7	558.5	535.1	504.8	466.1	421.0	373.6	330.3	293.8
132.5°	573.0	569.5	560.9	544.8	521.8	491.6	453.7	411.4	369.1	329.8	297.0
135°	549.9	546.5	537.4	521.4	498.6	470.0	435.3	398.2	362.2	329.1	301.8
137.5°	521.4	517.3	509.8	494.0	472.7	446.9	417.6	386.2	356.3	329.0	304.6
140°	500.9	496.3	488.3	475.8	455.8	431.8	406.2	379.3	353.1	328.6	306.9
142.5°	478.9	475.8	468.7	457.0	439.4	418.6	396.6	373.0	350.4	328.6	308.7
145°	448.9	446.1	440.4	430.7	416.4	400.5	383.3	363.9	345.7	327.4	309.8
147.5°	422.4	421.3	417.0	408.7	398.2	385.6	371.9	356.5	341.5	325.4	310.3
150°	407.3	406.7	403.3	395.9	386.8	376.5	365.1	352.0	338.3	324.0	310.3
152.5°	393.6	393.0	391.0	384.9	377.2	368.7	358.2	346.9	334.6	321.7	309.4
155°	375.9	375.9	374.2	369.7	363.9	357.1	348.5	339.4	329.1	318.3	308.0
157.5°	360.4	360.4	359.4	356.0	351.6	346.1	339.0	331.3	323.6	314.8	306.6
160°	350.8	350.8	350.3	346.8	343.4	338.8	332.6	326.3	319.5	312.0	305.2
162.5°	341.7	342.2	341.6	338.2	335.7	331.5	326.6	321.3	315.8	309.3	303.8
165°	328.0	328.6	329.1	326.9	324.6	321.7	317.7	314.3	309.8	305.2	301.2
167.5°	317.2	317.6	317.7	316.3	315.1	313.4	310.2	307.6	304.3	301.1	298.5
170°	310.3	310.3	310.9	310.3	309.2	307.5	305.2	303.5	300.6	298.3	296.6
172.5°	303.5	304.4	305.0	304.4	303.7	302.5	301.1	299.8	297.4	295.6	294.8
175°	295.5	296.6	297.8	296.6	296.6	296.6	295.5	294.9	293.8	292.6	292.6
177.5°	290.8	291.7	292.6	292.2	292.6	292.2	292.2	291.7	291.3	290.8	290.8
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



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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°	8.8	9.0	8.1	7.4	6.7	6.0	5.5	5.0	5.5	6.0	6.3
90°	8.0	8.0	4.6	4.6	4.0	3.4	1.7	0.6	1.7	3.4	4.0
92.5°	115.2	71.0	42.0	30.1	21.8	14.8	9.5	6.5	9.5	14.8	21.8
95°	214.5	120.9	71.3	47.3	33.7	26.2	20.5	18.8	20.5	26.2	33.7
97.5°	192.8	115.6	77.4	57.3	45.5	38.7	33.8	33.8	33.8	38.7	45.5
100°	181.4	116.9	83.3	65.0	54.2	47.3	43.4	43.4	43.4	47.3	54.2
102.5°	178.2	121.5	91.0	73.7	63.3	56.9	53.4	52.5	53.4	56.9	63.3
105°	179.7	132.3	105.0	88.4	78.2	71.3	68.5	66.7	68.5	71.3	78.2
107.5°	188.1	145.0	119.9	103.6	93.8	86.5	83.6	82.5	83.6	86.5	93.8
110°	194.5	154.6	129.5	114.1	103.8	97.0	94.1	93.0	94.1	97.0	103.8





TEST NUMBER: P332501

CATALOG NUMBER: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.4	163.7	139.5	124.1	113.9	107.5	104.2	103.0	104.2	107.5	113.9
115°	212.2	178.0	155.2	139.8	128.9	123.2	119.2	117.5	119.2	123.2	128.9
117.5°	223.3	191.8	170.1	154.1	144.0	137.7	134.2	132.6	134.2	137.7	144.0
120°	231.0	201.4	179.7	163.7	154.0	147.7	143.8	142.6	143.8	147.7	154.0
122.5°	238.3	210.5	188.8	173.3	162.7	156.9	152.9	151.7	152.9	156.9	162.7
125°	249.3	223.0	202.5	186.5	175.7	169.4	166.0	163.7	166.0	169.4	175.7
127.5°	258.8	234.7	214.8	198.7	187.4	180.3	176.2	174.3	176.2	180.3	187.4
130°	264.7	242.4	223.0	206.5	195.7	187.1	182.5	180.3	182.5	187.1	195.7
132.5°	270.6	248.8	229.4	213.8	202.1	194.0	188.0	186.2	188.0	194.0	202.1
135°	278.4	257.8	239.0	224.2	212.2	202.5	196.8	194.5	196.8	202.5	212.2
137.5°	283.9	264.7	247.1	233.0	220.5	211.3	205.0	202.9	205.0	211.3	220.5
140°	287.5	269.3	252.1	238.4	226.5	216.8	210.5	208.8	210.5	216.8	226.5
142.5°	290.2	273.4	256.7	243.5	231.9	222.7	216.9	215.2	216.9	222.7	231.9
145°	293.2	277.8	263.0	250.4	239.6	231.6	225.9	224.2	225.9	231.6	239.6
147.5°	295.8	282.4	268.5	257.2	248.1	239.9	234.9	234.3	234.9	239.9	248.1
150°	297.2	284.7	272.1	261.3	252.7	245.9	241.3	240.7	241.3	245.9	252.7
152.5°	298.1	286.5	275.3	265.4	257.7	251.3	246.8	246.7	246.8	251.3	257.7
155°	298.9	289.2	279.5	271.0	264.7	259.0	255.6	255.0	255.6	259.0	264.7
157.5°	298.9	291.2	282.9	276.2	270.7	266.3	263.1	263.1	263.1	266.3	270.7
160°	298.9	292.1	285.2	278.9	274.4	270.4	268.1	268.1	268.1	270.4	274.4
162.5°	298.9	293.0	286.6	281.7	277.6	274.0	272.2	272.7	272.2	274.0	277.6
165°	297.8	293.2	288.1	284.7	281.8	278.9	277.8	277.8	277.8	278.9	281.8
167.5°	296.4	293.1	289.3	286.7	285.1	282.9	282.4	282.9	282.4	282.9	285.1
170°	295.5	292.6	289.8	288.1	286.9	285.2	284.7	285.2	284.7	285.2	286.9
172.5°	294.6	292.2	290.2	289.0	288.3	287.0	286.9	287.5	286.9	287.0	288.3
175°	293.2	291.5	290.4	290.4	289.8	289.2	289.2	289.8	289.2	289.2	289.8
177.5°	291.7	290.8	290.4	290.4	290.4	289.9	290.4	290.8	290.4	289.9	290.4
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332501

CATALOG NUMBER: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4

**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°	7.0	7.0	8.4	8.8	9.6	10.8	11.0	13.2	14.1	15.2	16.9
90°	4.6	4.6	8.0	8.0	9.1	10.3	9.7	10.3	10.8	11.4	11.4
92.5°	30.1	42.0	71.0	115.2	158.4	180.9	150.7	112.0	84.3	67.1	55.7
95°	47.3	71.3	120.9	214.5	350.8	464.9	478.0	422.7	334.3	257.8	202.5
97.5°	57.3	77.4	115.6	192.8	328.4	489.7	600.6	624.5	591.7	535.9	476.3
100°	65.0	83.3	116.9	181.4	297.8	458.6	604.7	688.0	699.4	671.4	629.2
102.5°	73.7	91.0	121.5	178.2	277.2	419.9	570.4	684.8	741.4	749.5	731.9
105°	88.4	105.0	132.3	179.7	259.6	374.2	508.3	638.9	737.6	794.1	817.5
107.5°	103.6	119.9	145.0	188.1	256.4	348.7	458.1	573.8	678.8	758.4	809.2
110°	114.1	129.5	154.6	194.5	257.3	340.0	433.0	534.5	633.2	715.9	778.7



TEST NUMBER: P332501

CATALOG NUMBER: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.1	139.5	163.7	201.4	260.0	335.9	418.8	505.8	593.0	671.2	733.9
115°	139.8	155.2	178.0	212.2	265.3	333.7	405.6	476.9	547.1	613.8	668.6
117.5°	154.1	170.1	191.8	223.3	270.8	333.1	399.7	462.7	520.8	573.3	619.7
120°	163.7	179.7	201.4	231.0	275.0	333.1	396.5	456.4	509.4	555.0	595.5
122.5°	173.3	188.8	210.5	238.3	279.1	332.7	392.8	450.9	502.1	543.6	579.1
125°	186.5	202.5	223.0	249.3	285.2	332.0	386.8	441.5	490.6	529.9	561.3
127.5°	198.7	214.8	234.7	258.8	290.1	330.7	378.7	430.1	477.0	516.3	546.0
130°	206.5	223.0	242.4	264.7	293.8	330.3	373.6	421.0	466.1	504.8	535.1
132.5°	213.8	229.4	248.8	270.6	297.0	329.8	369.1	411.4	453.7	491.6	521.8
135°	224.2	239.0	257.8	278.4	301.8	329.1	362.2	398.2	435.3	470.0	498.6
137.5°	233.0	247.1	264.7	283.9	304.6	329.0	356.3	386.2	417.6	446.9	472.7
140°	238.4	252.1	269.3	287.5	306.9	328.6	353.1	379.3	406.2	431.8	455.8
142.5°	243.5	256.7	273.4	290.2	308.7	328.6	350.4	373.0	396.6	418.6	439.4
145°	250.4	263.0	277.8	293.2	309.8	327.4	345.7	363.9	383.3	400.5	416.4
147.5°	257.2	268.5	282.4	295.8	310.3	325.4	341.5	356.5	371.9	385.6	398.2
150°	261.3	272.1	284.7	297.2	310.3	324.0	338.3	352.0	365.1	376.5	386.8
152.5°	265.4	275.3	286.5	298.1	309.4	321.7	334.6	346.9	358.2	368.7	377.2
155°	271.0	279.5	289.2	298.9	308.0	318.3	329.1	339.4	348.5	357.1	363.9
157.5°	276.2	282.9	291.2	298.9	306.6	314.8	323.6	331.3	339.0	346.1	351.6
160°	278.9	285.2	292.1	298.9	305.2	312.0	319.5	326.3	332.6	338.8	343.4
162.5°	281.7	286.6	293.0	298.9	303.8	309.3	315.8	321.3	326.6	331.5	335.7
165°	284.7	288.1	293.2	297.8	301.2	305.2	309.8	314.3	317.7	321.7	324.6
167.5°	286.7	289.3	293.1	296.4	298.5	301.1	304.3	307.6	310.2	313.4	315.1
170°	288.1	289.8	292.6	295.5	296.6	298.3	300.6	303.5	305.2	307.5	309.2
172.5°	289.0	290.2	292.2	294.6	294.8	295.6	297.4	299.8	301.1	302.5	303.7
175°	290.4	290.4	291.5	293.2	292.6	292.6	293.8	294.9	295.5	296.6	296.6
177.5°	290.4	290.4	290.8	291.7	290.8	290.8	291.3	291.7	292.2	292.2	292.6
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332501

CATALOG NUMBER: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4

**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°	17.5	17.8	18.3	18.7	18.3	17.8	17.5	16.9	15.2	14.1	13.2
90°	12.0	12.5	12.0	12.0	12.0	12.5	12.0	11.4	11.4	10.8	10.3
92.5°	48.9	45.9	43.9	43.9	43.9	45.9	48.9	55.7	67.1	84.3	112.0
95°	174.6	156.9	146.6	139.2	146.6	156.9	174.6	202.5	257.8	334.3	422.7
97.5°	435.4	401.0	383.9	372.0	383.9	401.0	435.4	476.3	535.9	591.7	624.5
100°	579.6	544.8	527.7	523.1	527.7	544.8	579.6	629.2	671.4	699.4	688.0
102.5°	701.4	676.2	658.2	654.5	658.2	676.2	701.4	731.9	749.5	741.4	684.8
105°	818.6	814.0	806.0	802.6	806.0	814.0	818.6	817.5	794.1	737.6	638.9
107.5°	837.4	850.4	856.1	857.6	856.1	850.4	837.4	809.2	758.4	678.8	573.8
110°	819.2	843.1	853.4	858.5	853.4	843.1	819.2	778.7	715.9	633.2	534.5



TEST NUMBER: P332501

CATALOG NUMBER: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	779.9	808.9	823.3	831.6	823.3	808.9	779.9	733.9	671.2	593.0	505.8
115°	713.6	747.9	766.1	770.7	766.1	747.9	713.6	668.6	613.8	547.1	476.9
117.5°	658.2	686.9	705.4	709.0	705.4	686.9	658.2	619.7	573.3	520.8	462.7
120°	628.1	653.2	668.0	674.3	668.0	653.2	628.1	595.5	555.0	509.4	456.4
122.5°	606.6	628.1	640.6	646.9	640.6	628.1	606.6	579.1	543.6	502.1	450.9
125°	584.1	600.7	611.5	614.9	611.5	600.7	584.1	561.3	529.9	490.6	441.5
127.5°	569.0	583.7	592.8	596.2	592.8	583.7	569.0	546.0	516.3	477.0	430.1
130°	558.5	572.7	581.9	585.3	581.9	572.7	558.5	535.1	504.8	466.1	421.0
132.5°	544.8	560.9	569.5	573.0	569.5	560.9	544.8	521.8	491.6	453.7	411.4
135°	521.4	537.4	546.5	549.9	546.5	537.4	521.4	498.6	470.0	435.3	398.2
137.5°	494.0	509.8	517.3	521.4	517.3	509.8	494.0	472.7	446.9	417.6	386.2
140°	475.8	488.3	496.3	500.9	496.3	488.3	475.8	455.8	431.8	406.2	379.3
142.5°	457.0	468.7	475.8	478.9	475.8	468.7	457.0	439.4	418.6	396.6	373.0
145°	430.7	440.4	446.1	448.9	446.1	440.4	430.7	416.4	400.5	383.3	363.9
147.5°	408.7	417.0	421.3	422.4	421.3	417.0	408.7	398.2	385.6	371.9	356.5
150°	395.9	403.3	406.7	407.3	406.7	403.3	395.9	386.8	376.5	365.1	352.0
152.5°	384.9	391.0	393.0	393.6	393.0	391.0	384.9	377.2	368.7	358.2	346.9
155°	369.7	374.2	375.9	375.9	375.9	374.2	369.7	363.9	357.1	348.5	339.4
157.5°	356.0	359.4	360.4	360.4	360.4	359.4	356.0	351.6	346.1	339.0	331.3
160°	346.8	350.3	350.8	350.8	350.8	350.3	346.8	343.4	338.8	332.6	326.3
162.5°	338.2	341.6	342.2	341.7	342.2	341.6	338.2	335.7	331.5	326.6	321.3
165°	326.9	329.1	328.6	328.0	328.6	329.1	326.9	324.6	321.7	317.7	314.3
167.5°	316.3	317.7	317.6	317.2	317.6	317.7	316.3	315.1	313.4	310.2	307.6
170°	310.3	310.9	310.3	310.3	310.3	310.9	310.3	309.2	307.5	305.2	303.5
172.5°	304.4	305.0	304.4	303.5	304.4	305.0	304.4	303.7	302.5	301.1	299.8
175°	296.6	297.8	296.6	295.5	296.6	297.8	296.6	296.6	296.6	295.5	294.9
177.5°	292.2	292.6	291.7	290.8	291.7	292.6	292.2	292.6	292.2	292.2	291.7
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332501

CATALOG NUMBER: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4

**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°	11.0	10.8	9.6	8.8	8.4	7.0	7.0	6.3	6.0	5.5	5.0
90°	9.7	10.3	9.1	8.0	8.0	4.6	4.6	4.0	3.4	1.7	0.6
92.5°	150.7	180.9	158.4	115.2	71.0	42.0	30.1	21.8	14.8	9.5	6.5
95°	478.0	464.9	350.8	214.5	120.9	71.3	47.3	33.7	26.2	20.5	18.8
97.5°	600.6	489.7	328.4	192.8	115.6	77.4	57.3	45.5	38.7	33.8	33.8
100°	604.7	458.6	297.8	181.4	116.9	83.3	65.0	54.2	47.3	43.4	43.4
102.5°	570.4	419.9	277.2	178.2	121.5	91.0	73.7	63.3	56.9	53.4	52.5
105°	508.3	374.2	259.6	179.7	132.3	105.0	88.4	78.2	71.3	68.5	66.7
107.5°	458.1	348.7	256.4	188.1	145.0	119.9	103.6	93.8	86.5	83.6	82.5
110°	433.0	340.0	257.3	194.5	154.6	129.5	114.1	103.8	97.0	94.1	93.0



TEST NUMBER: P332501

CATALOG NUMBER: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	418.8	335.9	260.0	201.4	163.7	139.5	124.1	113.9	107.5	104.2	103.0
115°	405.6	333.7	265.3	212.2	178.0	155.2	139.8	128.9	123.2	119.2	117.5
117.5°	399.7	333.1	270.8	223.3	191.8	170.1	154.1	144.0	137.7	134.2	132.6
120°	396.5	333.1	275.0	231.0	201.4	179.7	163.7	154.0	147.7	143.8	142.6
122.5°	392.8	332.7	279.1	238.3	210.5	188.8	173.3	162.7	156.9	152.9	151.7
125°	386.8	332.0	285.2	249.3	223.0	202.5	186.5	175.7	169.4	166.0	163.7
127.5°	378.7	330.7	290.1	258.8	234.7	214.8	198.7	187.4	180.3	176.2	174.3
130°	373.6	330.3	293.8	264.7	242.4	223.0	206.5	195.7	187.1	182.5	180.3
132.5°	369.1	329.8	297.0	270.6	248.8	229.4	213.8	202.1	194.0	188.0	186.2
135°	362.2	329.1	301.8	278.4	257.8	239.0	224.2	212.2	202.5	196.8	194.5
137.5°	356.3	329.0	304.6	283.9	264.7	247.1	233.0	220.5	211.3	205.0	202.9
140°	353.1	328.6	306.9	287.5	269.3	252.1	238.4	226.5	216.8	210.5	208.8
142.5°	350.4	328.6	308.7	290.2	273.4	256.7	243.5	231.9	222.7	216.9	215.2
145°	345.7	327.4	309.8	293.2	277.8	263.0	250.4	239.6	231.6	225.9	224.2
147.5°	341.5	325.4	310.3	295.8	282.4	268.5	257.2	248.1	239.9	234.9	234.3
150°	338.3	324.0	310.3	297.2	284.7	272.1	261.3	252.7	245.9	241.3	240.7
152.5°	334.6	321.7	309.4	298.1	286.5	275.3	265.4	257.7	251.3	246.8	246.7
155°	329.1	318.3	308.0	298.9	289.2	279.5	271.0	264.7	259.0	255.6	255.0
157.5°	323.6	314.8	306.6	298.9	291.2	282.9	276.2	270.7	266.3	263.1	263.1
160°	319.5	312.0	305.2	298.9	292.1	285.2	278.9	274.4	270.4	268.1	268.1
162.5°	315.8	309.3	303.8	298.9	293.0	286.6	281.7	277.6	274.0	272.2	272.7
165°	309.8	305.2	301.2	297.8	293.2	288.1	284.7	281.8	278.9	277.8	277.8
167.5°	304.3	301.1	298.5	296.4	293.1	289.3	286.7	285.1	282.9	282.4	282.9
170°	300.6	298.3	296.6	295.5	292.6	289.8	288.1	286.9	285.2	284.7	285.2
172.5°	297.4	295.6	294.8	294.6	292.2	290.2	289.0	288.3	287.0	286.9	287.5
175°	293.8	292.6	292.6	293.2	291.5	290.4	290.4	289.8	289.2	289.2	289.8
177.5°	291.3	290.8	290.8	291.7	290.8	290.4	290.4	290.4	289.9	290.4	290.8
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332501

CATALOG NUMBER: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4

**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°	5.5	6.0	6.7	7.4	8.1	9.0	8.8	9.0	8.5	8.2	7.5
90°	1.7	3.4	4.0	4.6	4.6	8.0	8.0	9.1	10.3	9.7	10.3
92.5°	9.5	14.8	21.8	30.1	42.0	71.0	115.2	158.4	180.9	150.7	112.0
95°	20.5	26.2	33.7	47.3	71.3	120.9	214.5	350.8	464.9	478.0	422.7
97.5°	33.8	38.7	45.5	57.3	77.4	115.6	192.8	328.4	489.7	600.6	624.5
100°	43.4	47.3	54.2	65.0	83.3	116.9	181.4	297.8	458.6	604.7	688.0
102.5°	53.4	56.9	63.3	73.7	91.0	121.5	178.2	277.2	419.9	570.4	684.8
105°	68.5	71.3	78.2	88.4	105.0	132.3	179.7	259.6	374.2	508.3	638.9
107.5°	83.6	86.5	93.8	103.6	119.9	145.0	188.1	256.4	348.7	458.1	573.8
110°	94.1	97.0	103.8	114.1	129.5	154.6	194.5	257.3	340.0	433.0	534.5





TEST NUMBER: P332501

CATALOG NUMBER: SA4XXDIP-C350D590U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.2	107.5	113.9	124.1	139.5	163.7	201.4	260.0	335.9	418.8	505.8
115°	119.2	123.2	128.9	139.8	155.2	178.0	212.2	265.3	333.7	405.6	476.9
117.5°	134.2	137.7	144.0	154.1	170.1	191.8	223.3	270.8	333.1	399.7	462.7
120°	143.8	147.7	154.0	163.7	179.7	201.4	231.0	275.0	333.1	396.5	456.4
122.5°	152.9	156.9	162.7	173.3	188.8	210.5	238.3	279.1	332.7	392.8	450.9
125°	166.0	169.4	175.7	186.5	202.5	223.0	249.3	285.2	332.0	386.8	441.5
127.5°	176.2	180.3	187.4	198.7	214.8	234.7	258.8	290.1	330.7	378.7	430.1
130°	182.5	187.1	195.7	206.5	223.0	242.4	264.7	293.8	330.3	373.6	421.0
132.5°	188.0	194.0	202.1	213.8	229.4	248.8	270.6	297.0	329.8	369.1	411.4
135°	196.8	202.5	212.2	224.2	239.0	257.8	278.4	301.8	329.1	362.2	398.2
137.5°	205.0	211.3	220.5	233.0	247.1	264.7	283.9	304.6	329.0	356.3	386.2
140°	210.5	216.8	226.5	238.4	252.1	269.3	287.5	306.9	328.6	353.1	379.3
142.5°	216.9	222.7	231.9	243.5	256.7	273.4	290.2	308.7	328.6	350.4	373.0
145°	225.9	231.6	239.6	250.4	263.0	277.8	293.2	309.8	327.4	345.7	363.9
147.5°	234.9	239.9	248.1	257.2	268.5	282.4	295.8	310.3	325.4	341.5	356.5
150°	241.3	245.9	252.7	261.3	272.1	284.7	297.2	310.3	324.0	338.3	352.0
152.5°	246.8	251.3	257.7	265.4	275.3	286.5	298.1	309.4	321.7	334.6	346.9
155°	255.6	259.0	264.7	271.0	279.5	289.2	298.9	308.0	318.3	329.1	339.4
157.5°	263.1	266.3	270.7	276.2	282.9	291.2	298.9	306.6	314.8	323.6	331.3
160°	268.1	270.4	274.4	278.9	285.2	292.1	298.9	305.2	312.0	319.5	326.3
162.5°	272.2	274.0	277.6	281.7	286.6	293.0	298.9	303.8	309.3	315.8	321.3
165°	277.8	278.9	281.8	284.7	288.1	293.2	297.8	301.2	305.2	309.8	314.3
167.5°	282.4	282.9	285.1	286.7	289.3	293.1	296.4	298.5	301.1	304.3	307.6
170°	284.7	285.2	286.9	288.1	289.8	292.6	295.5	296.6	298.3	300.6	303.5
172.5°	286.9	287.0	288.3	289.0	290.2	292.2	294.6	294.8	295.6	297.4	299.8
175°	289.2	289.2	289.8	290.4	290.4	291.5	293.2	292.6	292.6	293.8	294.9
177.5°	290.4	289.9	290.4	290.4	290.4	290.8	291.7	290.8	290.8	291.3	291.7
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4	290.4



TEST NUMBER: P332501

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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°	7.8	7.8	7.6	7.3	7.2	7.1	6.6
90°	10.8	11.4	11.4	12.0	12.5	12.0	12.0
92.5°	84.3	67.1	55.7	48.9	45.9	43.9	43.9
95°	334.3	257.8	202.5	174.6	156.9	146.6	139.2
97.5°	591.7	535.9	476.3	435.4	401.0	383.9	372.0
100°	699.4	671.4	629.2	579.6	544.8	527.7	523.1
102.5°	741.4	749.5	731.9	701.4	676.2	658.2	654.5
105°	737.6	794.1	817.5	818.6	814.0	806.0	802.6
107.5°	678.8	758.4	809.2	837.4	850.4	856.1	857.6
110°	633.2	715.9	778.7	819.2	843.1	853.4	858.5



TEST NUMBER: P332501

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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	593.0	671.2	733.9	779.9	808.9	823.3	831.6
115°	547.1	613.8	668.6	713.6	747.9	766.1	770.7
117.5°	520.8	573.3	619.7	658.2	686.9	705.4	709.0
120°	509.4	555.0	595.5	628.1	653.2	668.0	674.3
122.5°	502.1	543.6	579.1	606.6	628.1	640.6	646.9
125°	490.6	529.9	561.3	584.1	600.7	611.5	614.9
127.5°	477.0	516.3	546.0	569.0	583.7	592.8	596.2
130°	466.1	504.8	535.1	558.5	572.7	581.9	585.3
132.5°	453.7	491.6	521.8	544.8	560.9	569.5	573.0
135°	435.3	470.0	498.6	521.4	537.4	546.5	549.9
137.5°	417.6	446.9	472.7	494.0	509.8	517.3	521.4
140°	406.2	431.8	455.8	475.8	488.3	496.3	500.9
142.5°	396.6	418.6	439.4	457.0	468.7	475.8	478.9
145°	383.3	400.5	416.4	430.7	440.4	446.1	448.9
147.5°	371.9	385.6	398.2	408.7	417.0	421.3	422.4
150°	365.1	376.5	386.8	395.9	403.3	406.7	407.3
152.5°	358.2	368.7	377.2	384.9	391.0	393.0	393.6
155°	348.5	357.1	363.9	369.7	374.2	375.9	375.9
157.5°	339.0	346.1	351.6	356.0	359.4	360.4	360.4
160°	332.6	338.8	343.4	346.8	350.3	350.8	350.8
162.5°	326.6	331.5	335.7	338.2	341.6	342.2	341.7
165°	317.7	321.7	324.6	326.9	329.1	328.6	328.0
167.5°	310.2	313.4	315.1	316.3	317.7	317.6	317.2
170°	305.2	307.5	309.2	310.3	310.9	310.3	310.3
172.5°	301.1	302.5	303.7	304.4	305.0	304.4	303.5
175°	295.5	296.6	296.6	296.6	297.8	296.6	295.5
177.5°	292.2	292.2	292.6	292.2	292.6	291.7	290.8
180°	290.4	290.4	290.4	290.4	290.4	290.4	290.4

(END OF REPORT)